ORDER No. ACED020377C7

C4

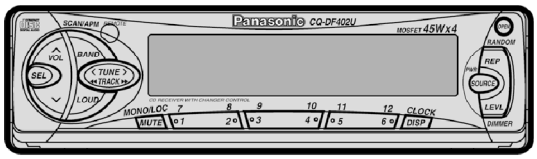
Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

COMPACT disc DIGITAL AUDIO

CQ-DF402U / CQ-DFX302U

Removable Full Front CD Player / Receiver with Changer Control



(CQ-DF402U)

SPECIFICATIONS

Specification*

General	
Power Supply	**DC 12V (11V - 16V),** **Test Voltage 14.4V** **Negative Ground**
Tone Adjustment Range	**Bass ; ±12dB at 100Hz** **Treble ; ±12dB at 10kHz**
Current Consumption	**Less than 2.2A (CD play mode; 0.5W×4ch)**
Maximum Power Output	**45W×4ch, at 400Hz, Vol. MAX**
Pre-AMP Output Voltage	**2.0V (CD play mode ; 1kHz 0dB)**
Sub-Woofer Output Voltage	**2.0V**
Output Impedance	**200 Ω**
Suitable Speaker Impedance	**4-8 Ω**
AM Radio	
Frequency Range	**530 - 1,710kHz**
Usable Sensitivity	**28dB/ μ V (25 μ V, S/N 20dB)**
FM Stereo Radio	
Frequency Range	**87.9 - 107.9MHz**
Usable Sensitivity	**11dBf (12.5 μ V, 75 Ω)**
CD Player	
Sampling Frequency	**32 times over sampling**
Pick-Up Type	**Astigma 3-beam**
Light Source	**Semiconductor Laser**
Wavelength	**780nm**
Frequency Response	**20Hz to 20,000Hz (±1dB)**
Signal to Noise Ratio	**96dB**
Wow and Flutter	**Below measurable limits**
Channel Separation	**75dB**
Dimensions**	**7"×1-15/16"×5-7/8"** **(178×50×150mm)**
Weight**	**3lbs 5oz (1.5kg)**

*** Specifications and the design are subject to possible modification without notice due to improvements.**

**** Dimensions and Weight shown are approximate.**

-Above specifications comply with EIA standards.

Panasonic®

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

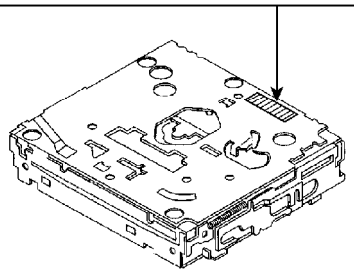
1. LASER PRODUCTS

CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.
Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Invisible laser radiation when open. Avoid direct exposure to beam.



Deck Ass'y (Upper Side)

Caution
This Product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

2. FEATUERS

- 32bit-times over sampling MASH 1bit 4-DAC system.
- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan

3. REPLACEING THE FUSE

Use fuses of the same specified rating (15A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

4. MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

5. NOTES

[RADIO BLOCK]

Do not align the AM and FM package blocks. When the package block is necessary, it will be supplied already aligned at the factory.

[CD DECK BLOCK]

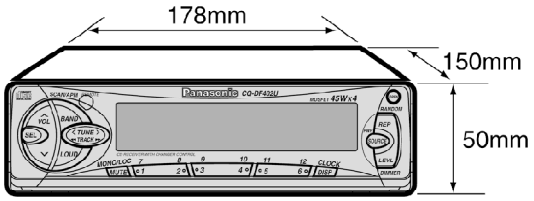
This model has no servo alignment points because microcomputer controls the servo circuit.

[OTHER]

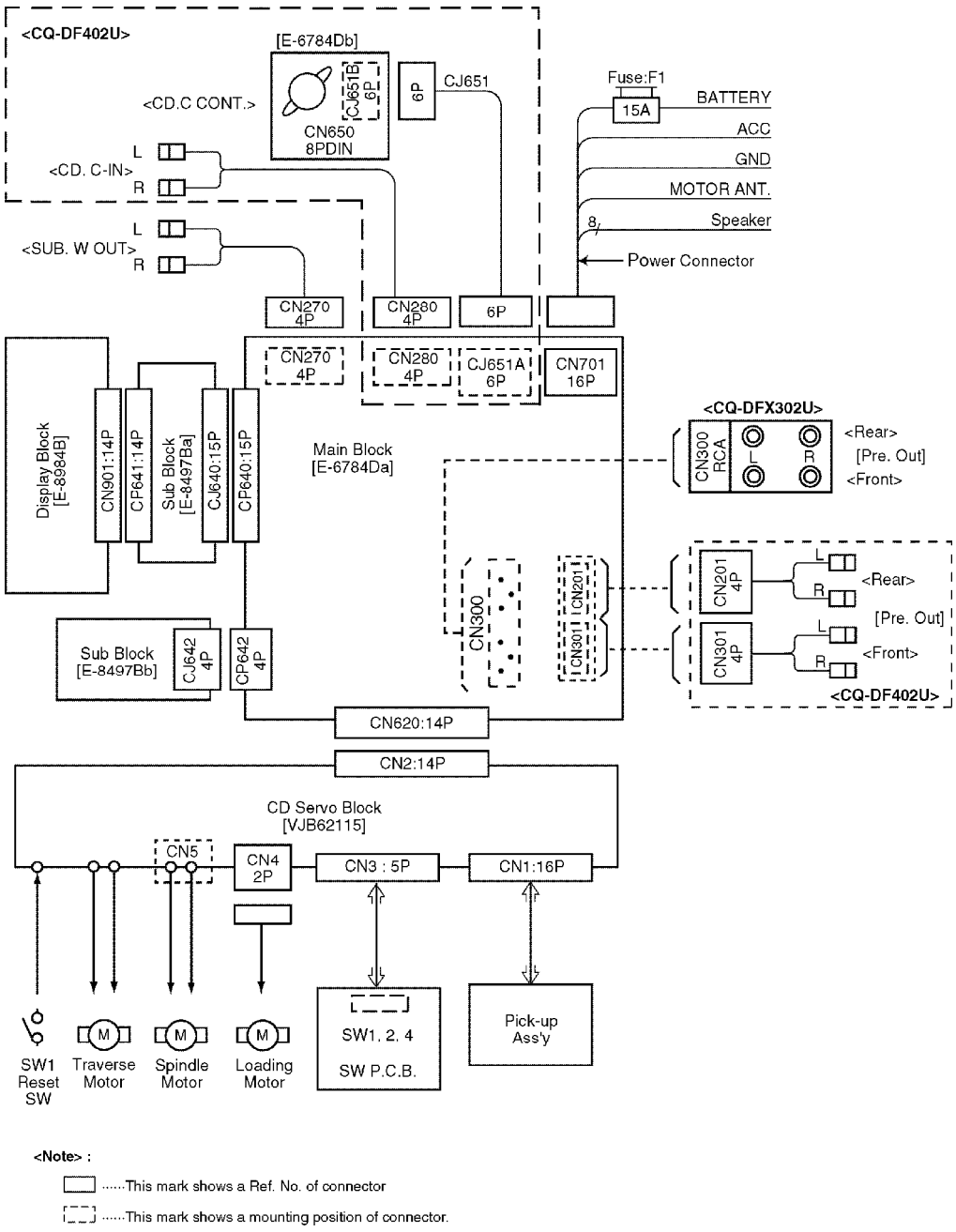
The following table describes the differences between 2 models.

	DF402U	DFX302U
CD changer control	Yes	None
Pre-Amp output connector	Lead type	Fix type

6. DIMENSIONS



7. WIRING CONNECTION

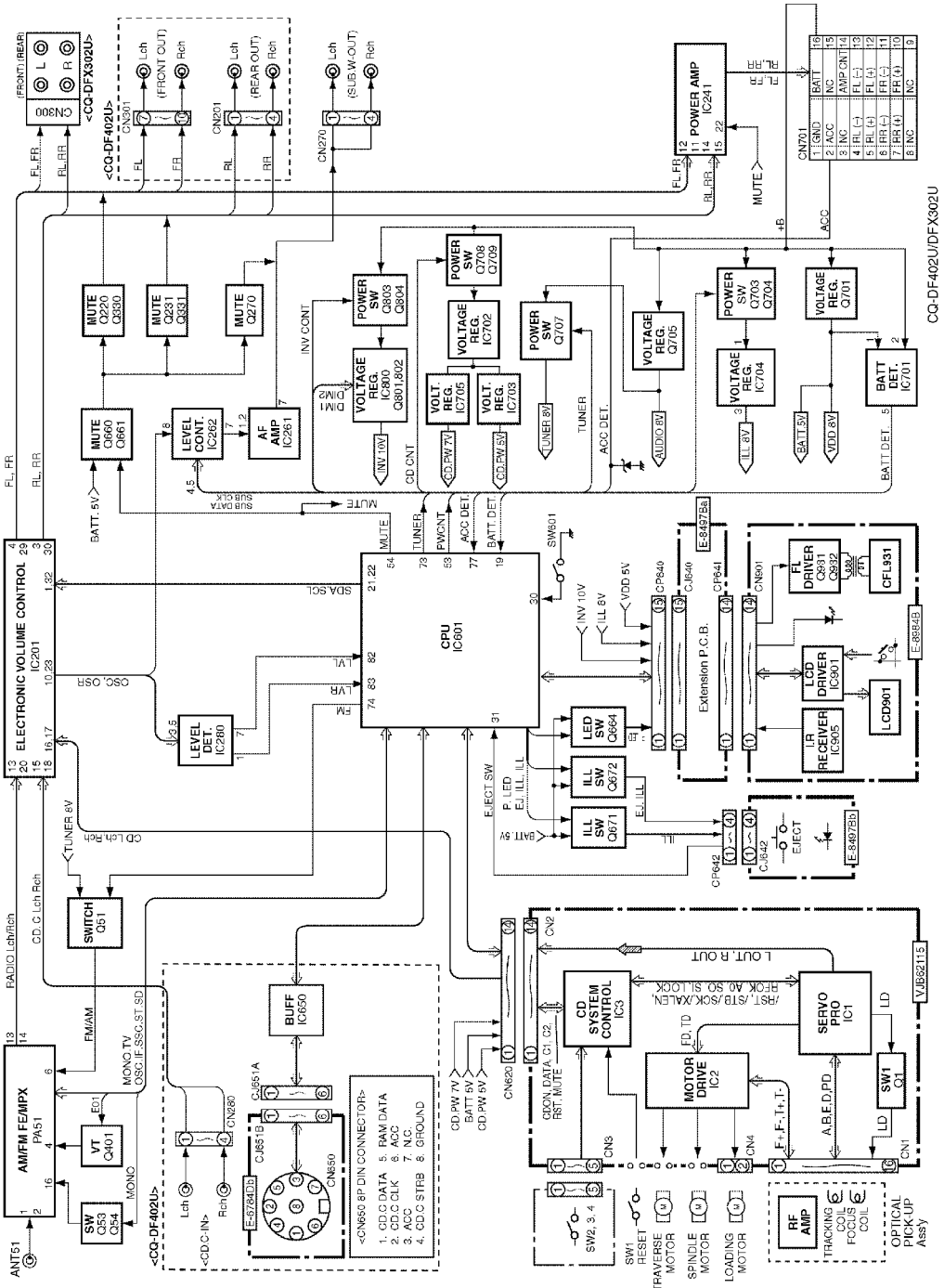


<Note> :

▭ .....This mark shows a Ref. No. of connector

[- -] .....This mark shows a mounting position of connector.

8. BLOCK DIAGRAM



9. TERMINALS DESCRIPTION

9.1. Main Block

IC601 : C2ABGF000015

Pin No.	Port	Description	I/O	(V)
1	XIN	Crystal oscillator	-	1.9
2	TEST2	(Connecting to ground)	-	0
3	VREG	Voltage regulator capacitor	-	0
4	VSS	Ground	-	0
5	CHC DATA	CD changer data (Note 1)	I	0
6	N.C.	No connection	-	-
7	CHC CK	CD changer clock (Note1)	I	0
8	RM DATA	Remocon data (Note 1)	O	4.9
9-12	N.C.	No connection	-	-
13	/LCD CE	LCD chip enable	O	0.6
14,15	N.C.	No connection	-	-
16	LCD DI	LCD data	O	4.6
17	LCD CLK	LCD clock	O	4.7
18	N.C.	No connection	-	-
19	BATT	Battery detection	I	5.0
20	LCD DO	LCD data	I	4.9
21	I2C CLK	Electric volume cont. clock	O	5.2
22	I2C DATA	Electric volume cont. data	I/O	5.2
23	/LED	Security LED control	O	3.7
24	N.C.	No connection	-	-
25	/EJ ILL	Eject illumi. Control	O	5.0
26	/ILL	Illumi. Control	O	5.0
27	N.C.	No connection	-	-
28	/P. LED	Panel LED control	O	0.4
29	FP CLOSE	Front panel close SW	I	5.2
30	PANEL	Panel detection SW	I	5.2
31	/EJ	Eject SW	I	4.7
32-38	N.C.	(Connecting to VDD)	-	5.0
39	VDD	+5V power supply	-	5.0
40	VSS	Ground	-	0
41-48	N.C.	(Connecting to ground)	-	0
49	CD CNT	CD power control	O	4.9
50	INV CNT	Invertor control	O	4.9
51	DIM 2	Dimmer control	O	0
52	DIM 1	Dimmer control	O	0
53	PWR CNT	Power control	O	4.9
54	/MUTE	Mute control	O	5.0

34	/MUTE	Mute control	O	3.0

55	CD DATA	CD data	I/O	4.7
56	CD CLK1	CD clock	O	5.0
57-61	N.C.	No connection	-	-
62	SUB80/ 120(NC)	Sub woofer cutoff freq.	-	-
63	SUB CLK	Sub. woofer clock	O	0
64	SUB DATA	Sub. woofer data	O	0
65	/HDB(NC)	HDB control	-	-
66	N.C.	No connection	-	-
67	/CD RST	CD reset	O	5.0
68	/CD ON	CD power on	O	0
69	CD CLK2	CD clock	O	4.9
70	CD MUTE	CD mute	I	0
71	REM IN	Remocon data	I	5.1
72	CHC STB	CD changer strobe (Note 1)	O	0
73	/TUNER	Tunner power control	O	0.3
74	FM	FM power control	O	0.2
75	/MONO	Mono/Stereo selection	O	8.0
76	SSC	Search stop clear	O	0.2
77	ACC SEN	ACC detection	I	3.9
78	N.C.	(Connecting to ground)	-	0
79	INIT A	Initial value	I	0
80	INIT B	Initial value	I	3.4
81	ADC VSS	ADC ground	-	0
82	LV L	Lch level detection	I	1.4
83	LV R	Rch level detection	I	1.4
84	N.C.	(Connecting to ground)	-	0
85	SD	B/S detection	I	0.6
86	/RESET	(Connecting to VDD)	-	5.0
87	HOLD	(Connecting to VDD)	-	5.0
88	SNS	(Connecting to VDD)	-	5.0
89	LCTR	(Connecting to ground)	-	0
90	IFC	Radio IF control	O	2.6
91	E03	Not used	-	-
92	/ST	FM stereo detection	I	4.5
93	PLL VDD	+5V power supply	-	5.0
94	AM IN	(Connecting to ground)	-	0
95	OSC	Radio oscillator	I	2.4
96	PLL VSS	PLL ground	-	0
97	E02	Not used	-	-
98	E01	PLL phase-comp. error	O	1.4

99	TEST 1	(Connecting to ground)	-	0
100	XOUT	Crystal oscillator	-	2.6

Note 1 : CQ-DF402U only

9.2. Display Block

IC901 : YEAMLC75884W

Pin No.	Port	Description	I/O	(V)
1-51	S3-53	LCD segment data	O	2.5
52-55	COM1-4	LCD common	O	2.5
56, 57	S54, 55	LCD segment data	O	2.5
58-61	KS3-6	Key strobe	O	0.9
62-66	KI1-5	Key data	I	0
67	VDD	+5V power supply	-	5.1
68	VLCD	+5V power supply	-	5.1
69	VLCD1	LCD angle	-	3.3
70	VLCD2	LCD angle	-	1.7
71	VSS	Ground	-	0
72	TEST	(Connecting to ground)	-	0
73	OSC	Oscillator terminal	-	3.9
74	/RESET	(Connecting to VCC)	-	5.1
75	DO	Key data output	O	4.1
76	CE	LCD driver chip enable	I	0
77	CLK	LCD clock	I	0
78	DI	LCD data	I	0
79, 80	S1,2	LCD segment data	O	2.5

9.3. CD Servo Block

IC3 : C2BBFD000355

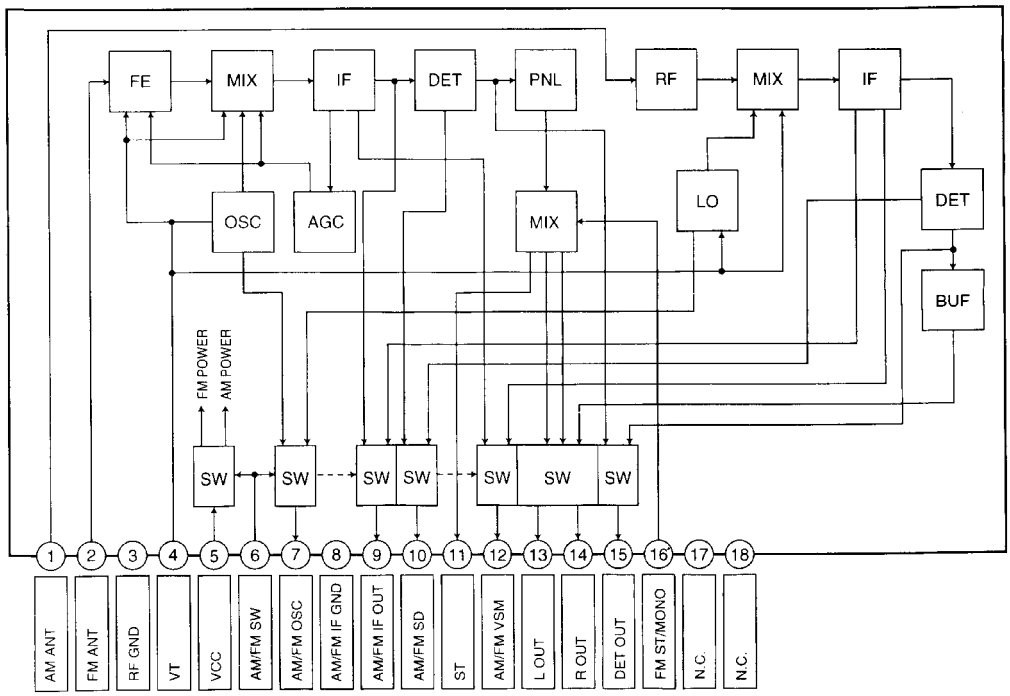
Pin No.	Port	Description	I/O	(V)
1	PS	IC2 mute	O	4.8
2	REV	Loading motor control	O	0
3	FWD	Loading motor control	O	0
4	P47	Not used	-	-
5	P46	Not used	-	-
6	C1	CD clock	I	4.8
7	ACC	ACC input	I	0
8	SW4	Switch input	I	0.5
9	SW3	Switch input	I	0.5
10	TEST	Not used	-	-
11	INSW	Reset switch	I	4.8
12	P31	Not used	-	-
13	VPP	(Ground pull-down)	-	0
14	X2	Crystal oscillator	-	2.9
15	X1	Crystal oscillator	-	2.0
16	VSS0	Ground	-	0
17	VDD0	+5V power supply	-	4.8
18	XT2	Not used	-	-
19	XT1	(Conecting to ground)	-	0
20	/RESET	Reset input	I	4.9
21	P30	Not used	-	-
22	MUTE	Mute control	O	4.8
23	SW1	Switch input	I	0
24	SW2	Switch input	I	4.8
25	SO(INT)	Serial data	O	0
26	/STB	Data strobe	O	0
27	SO	Serial data	O	0.4
28	SI	Serial data	I	3.8
29	/SCK	Data shift clock	O	3.8
30	L-ZERO	(Connecting to ground)	-	0
31	D.MUTE	DSP mute	O	0
32	DATA	CD data	I/O	0
33	C2	CD clock	I	0
34	R-ZERO	(Connecting to ground)	-	0
35	RXD	Not used	-	-
36	TXD	Not used	-	-
37	ASCK	Not used	-	-
38	VDD1	+5V power supply	-	4.8
39	VSS1	Ground	-	0
40	/XALEN	XAL enable	O	0
41	A0	Data/Command flag	O	3.8
42	RST2	Reset output	O	4.8
43	RFOK	RF signal input	I	4.7

43	RFOK	RF signal input	I	4.7
44	LOCK	Servo lock signal	O	4.7

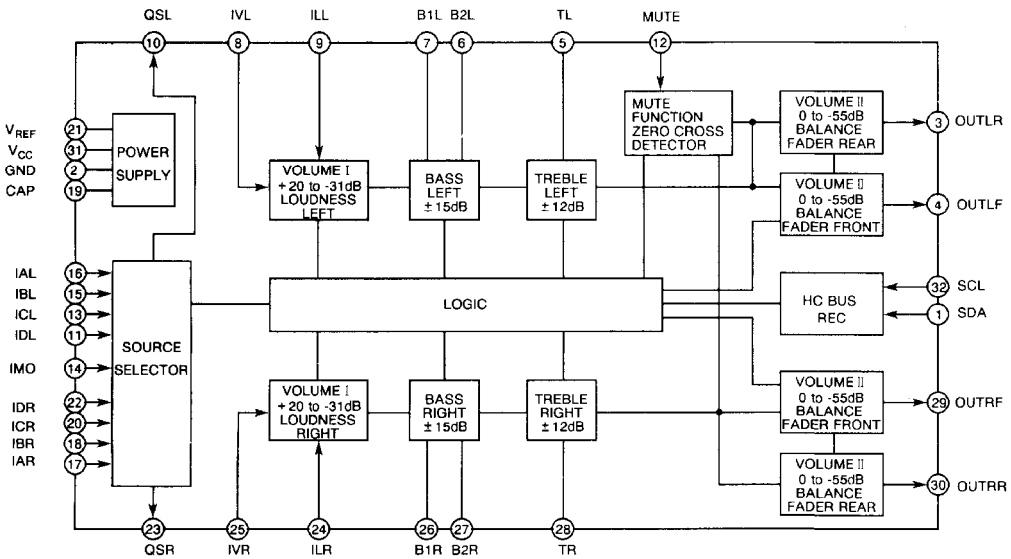
10. PACKAGE AND IC BLOCK DIAGRAM

10.1. Main block

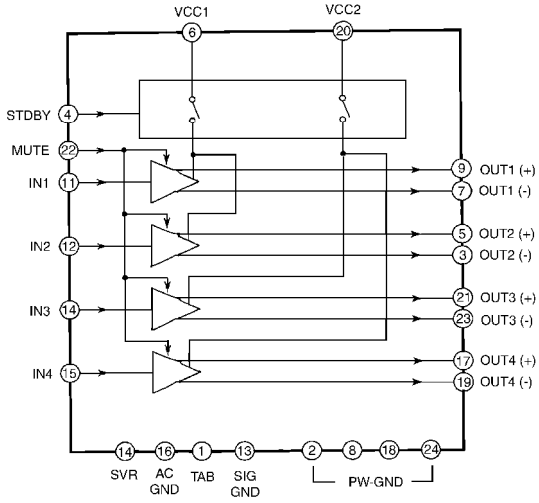
PA51 : YEAU03A052C



IC201 : YEAMEA6320TT

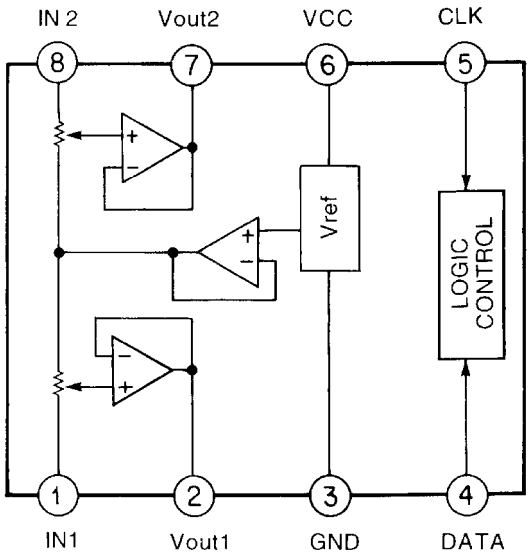


IC241 : C1EA00000021 (CQ-DF402U)

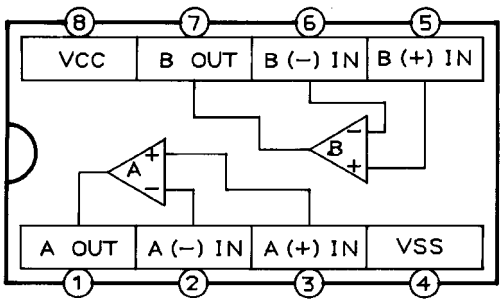


IC241 : C1EA00000026 (CQ-DFX302U)

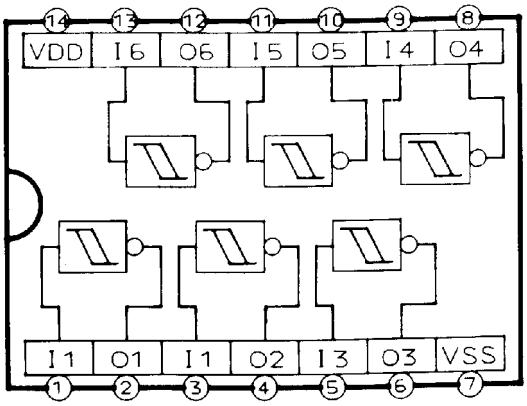
IC262 : YEAMM62429FP



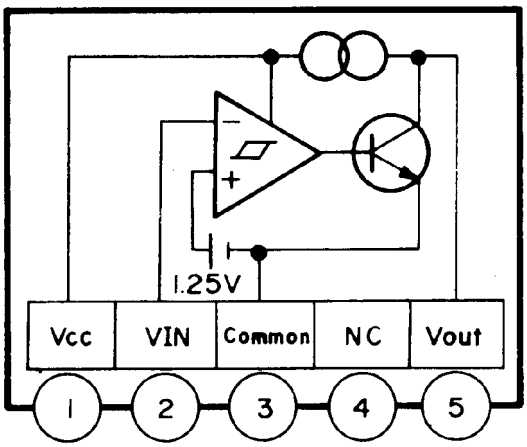
IC261 : YEAMPC4570T1 / IC280 : YEAMM5218AFE



IC650 : YEAMC14584BE

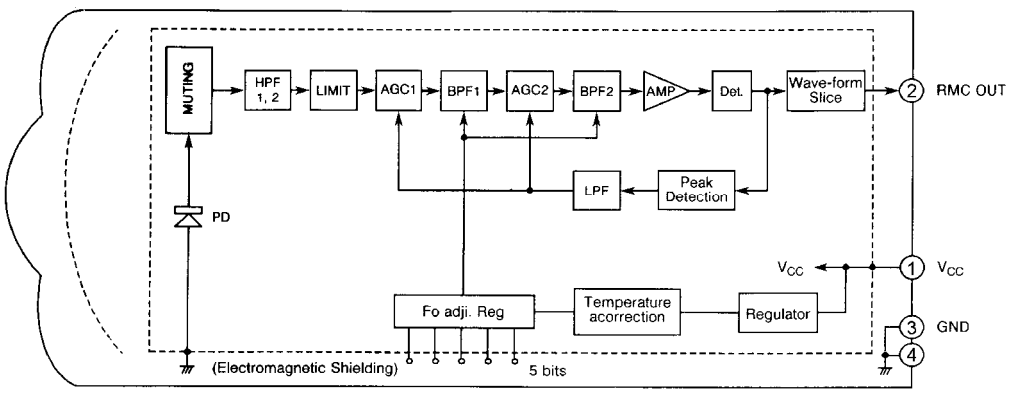


IC701 : YEAMM51945AL



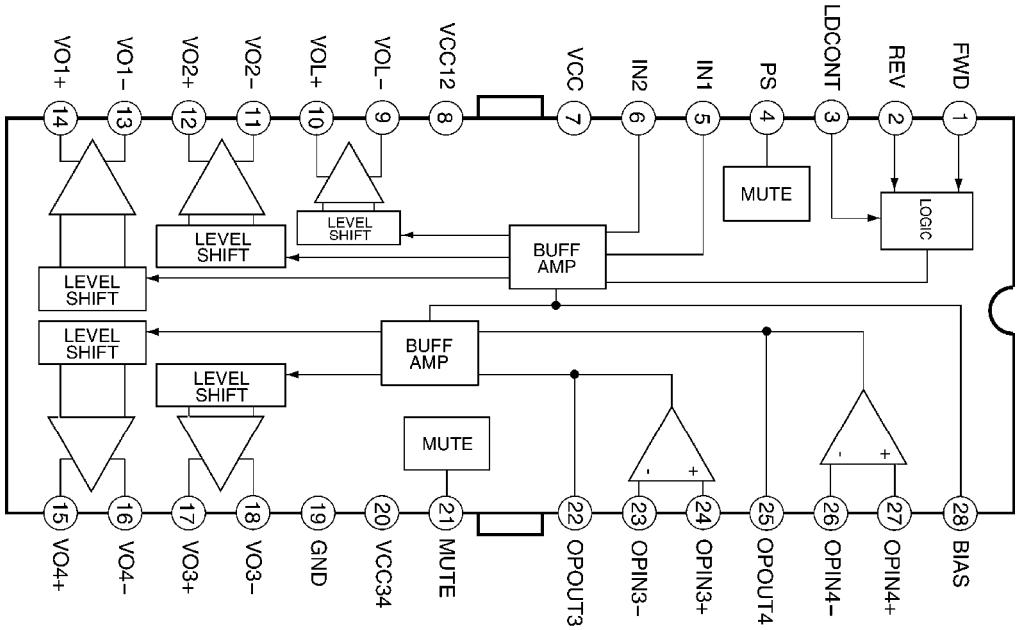
10.2. Display Block

IC905 : YEAMPASB06B2



10.3. CD Servo Block

IC2 : C0GBE0000012



11. REPLACEMENT PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
5. **"A" or "B" marks in remarks column are indicated as follows :**

   - A : CQ-DF402U
   - B : CQ-DFX302U

Ref. No.	Part No.	Part Name & Description	Remarks
[E-6784D] Main Block			
ICs AND TRANSISTORs			
IC201	YEAMEA6320TT	IC	
IC241	C1EA00000021	IC	A
IC241	C1EA00000026	IC	B
IC261	YEAMPC4570T1	IC	
IC262	YEAMM62429FP	IC	
IC280	YEAMM5218AFE	IC	
IC601	C2ABGF000015	IC	
IC650	YEAMC14584BE	IC	A
IC701	YEAMM51945AL	IC	
IC702	YEAMPC2910HF	IC	
IC703	AN78N08	IC	
IC704	AN78N08	IC	
IC705	AN7805F	IC	
IC800	AN7806F	IC	
PA51	YEAU03A052C	Electronic Tuner	
Q51	B1GDCFJN0004	Transistor	
Q53	B1GDCFJN0004	Transistor	
Q54	B1GBCFNN0004	Transistor	
Q230	YEANC143TKT	Transistor	
Q231	YEANC143TKT	Transistor	
Q270	YEANC143TKT	Transistor	
Q330	YEANC143TKT	Transistor	
Q331	YEANC143TKT	Transistor	
Q401	YEAN2SK536TB	Transistor	
Q660	B1GDCFJN0004	Transistor	
Q661	B1GDCFJN0004	Transistor	
Q664	B1GDCFJN0004	Transistor	
Q671	B1GDCFJN0004	Transistor	
Q672	B1GDCFJN0004	Transistor	
Q701	YEAND1859T	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANC114YKX	Transistor	
Q705	2SD2139TA	Transistor	
Q707	YEANFP1F3PT1	Transistor	
Q708	YEANB1243QRT	Transistor	
Q709	YEANC114YKX	Transistor	
Q801	B1GBCFNN0004	Transistor	
Q802	B1GBCFNN0004	Transistor	
Q803	YEANB1243QRT	Transistor	
Q804	YEANC114YKX	Transistor	
DIODEs			
D261	YEADRD51M2T1	Diode	
D611	LN25RP	LED	
D640	MA8056LMHTX	Diode	
D680	MA3X152K0L	Diode	
D681	YEADRD51M2T1	Diode	
D682	MA3X152K0L	Diode	
D683	YEADRD51M2T1	Diode	
D701	YEADDSA3A2	Diode	
D702	MA3X152K0L	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D703	YEADRD56M3T1	Diode	
D704	MA721TX	Diode	
D705	MA704TW	Diode	
D706	YEADRD51M2T1	Diode	
D707	YEAD11ES2T	Diode	
D708	YEADRD91M1T2	Diode	
D709	YEAD11ES2T	Diode	
D710	MA721TX	Diode	
D712	MA1091LMTA	Diode	
D716	YEAD11ES2T	Diode	
D801	MA153TX	Diode	
D802	YEADRD27M2T1	Diode	
CAPACITORs			
C51	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C52	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C53	YECUS1H101JM	Ceramic, 100PF 50WV	
C54	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C57	YECUS1E273KX	Ceramic, 0.027 μ F 25WV	
C58	YECUS1E273KX	Ceramic, 0.027 μ F 25WV	
C60	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C61	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C201	YECUS1H101JM	Ceramic, 100PF 50WV	
C202	YECUS1H101JM	Ceramic, 100PF 50WV	
C203	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C204	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	A
C205	ECEA1HKAR33BB	Electrolytic, 0.33 μ F 50WV	
C208	YECUS1E333KX	Ceramic, 0.033 μ F 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C210	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C211	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C230	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C231	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C238	YECUS1H221JM	Ceramic, 220PF 50WV	
C239	YECUS1H221JM	Ceramic, 220PF 50WV	
C241	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C244	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C248	ECA1CDT472Y	Electrolytic, 4700 μ F 16WV	
C250	YECUV1H101JM	Ceramic, 100PF 50WV	
C251	YECUS1H101JM	Ceramic, 100PF 50WV	
C252	YECUV1H101JM	Ceramic, 100PF 50WV	
C253	YECUS1H101JM	Ceramic, 100PF 50WV	
C260	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	

		Electrolytic, 10 [illegible] 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C261	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C262	YECUS1C224KX	Ceramic, 0.22 μ F 16WV	
C263	YECUS1E223KX	Ceramic, 0.022 μ F 25WV	
C264	ECEA1HKA2R2I	Electrolytic, 2.2 μ F 50WV	
C266	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C270	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C274	YECUS1H221JM	Ceramic, 220PF 50WV	
C275	YECUS1H221JM	Ceramic, 220PF 50WV	
C280	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C281	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C282	ECEA1AKA220I	Electrolytic, 22 μ F 10WV	
C283	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C298	YECUV1C224KX	Ceramic, 0.22 μ F 16WV	
C301	YECUS1H101JM	Ceramic, 100PF 50WV	
C302	YECUS1H101JM	Ceramic, 100PF 50WV	
C303	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	
C304	ECEA1HKA3R3I	Electrolytic, 3.3 μ F 50WV	A
C305	ECEA1HKAR33B	Electrolytic, 0.33 μ F 50WV	
C308	YECUS1E333KX	Ceramic, 0.033 μ F 25WV	
C309	YECUS1H562KX	Ceramic, 0.0056 μ F 50WV	
C310	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C311	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C330	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C331	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C338	YECUS1H221JM	Ceramic, 220PF 50WV	
C339	YECUS1H221JM	Ceramic, 220PF 50WV	
C341	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C344	ECEA1HKAR47I	Electrolytic, 0.47 μ F 50WV	
C345	YECUS1H122KX	Ceramic, 0.0012 μ F 50WV	
C346	YECUV1C105KX	Ceramic, 1 μ F 16WV	
C347	ECEA1AKS101	Electrolytic, 100 μ F 10WV	
C348	YECUV1C225KX	Ceramic, 2.2 μ F 16WV	
C350	YECUV1H101JM	Ceramic, 100PF 50WV	
C351	YECUS1H101JM	Ceramic, 100PF 50WV	
C352	YECUS1H101JM	Ceramic, 100PF 50WV	
C353	YECUV1H101JM	Ceramic, 100PF 50WV	
C360	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C361	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C380	YECUS1C104KX	Ceramic, 0.1 μ F 16WV	
C381	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C402	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C403	ECEA1HKA4R7I	Electrolytic, 4.7 μ F 50WV	
C404	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C405	YECUS1H102KX	Ceramic, 0.001 μ F 50WV	
C510	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C601	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C603	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C604	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C606	YECUS1H220JM	Ceramic, 22PF 50WV	
C607	YECUS1H220JM	Ceramic, 22PF 50WV	
C608	ECEA0JKA331I	Electrolytic, 330 μ F 6.3WV	
C609	EECS0HD473H	Electrolytic, 0.047 μ F 5.5WV	
C613	YECUV2A102KX	Ceramic, 0.001 μ F 100WV	
C619	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
C635	YECUS1H680JM	Ceramic, 68PF 50WV	
C636	YECUS1H101JM	Ceramic, 100PF 50WV	
C650	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	A
C651	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	A
C660	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C661	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C662	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C663	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C680	ECSH1CY225CR	Tantalum, 2.2 μ F 16WV	
C681	ECSH1CY225CR	Tantalum, 2.2 μ F 16WV	
C701	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C702	ECEA1CKA100I	Electrolytic, 10 μ F 16WV	
C703	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C704	ECEA0JKA470I	Electrolytic, 47 μ F 6.3WV	
C705	ECEA1HKA010I	Electrolytic, 1 μ F 50WV	
C707	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C708	ECEA1AKS221I	Electrolytic, 220 μ F 10WV	
C709	ECEA1AKA221I	Electrolytic, 220 μ F 10WV	
C710	ECA1CDT102BQ	Electrolytic, 1000 μ F 16WV	
C711	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C712	EEAFC1A820H	Electrolytic, 82 μ F 10WV	
C714	ECEA0JKA101I	Electrolytic, 100 μ F 6.3WV	
C715	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C717	ECEA1CKA470I	Electrolytic, 47 μ F 16WV	
C719	YECUS1H103KX	Ceramic, 0.01 μ F 50WV	
C720	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C800	YECUV1H104ZF	Ceramic, 0.1 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C801	ECEA1CKA101	Electrolytic, 100 μ F 16WV	
C802	F1K1E334A022	Ceramic, 0.33 μ F 25WV	
C803	ECEA1AKA221I	Electrolytic, 220 μ F 10WV	
C804	YECUS1E104ZF	Ceramic, 0.1 μ F 25WV	
RESISTORs			
J501	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J502	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J503	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J504	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J505	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J506	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J507	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J508	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J509	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J601	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J602	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J603	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J604	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J605	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
J606	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J607	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J608	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J609	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J610	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J611	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J612	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J613	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J614	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J615	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J616	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J617	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J618	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J619	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J620	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J621	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J622	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J623	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J624	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J625	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J626	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J627	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J628	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J629	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
J630	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J631	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J632	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J633	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J634	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J635	ERJ8GX0R00V	Chip, 0 Ω 1/8W	
J636	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J637	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J638	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J639	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J640	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J641	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J642	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J643	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J644	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J645	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J646	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J647	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J648	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J649	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J650	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R50	ERJ6GEYJ5R6	Chip, 5.6 Ω 1/10W	
R51	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R52	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R53	ERJ6GEYJ431	Chip, 430 Ω 1/10W	
R54	ERJ8GEYJ123V	Chip, 12k Ω 1/8W	
R56	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R57	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R59	ERJ6GEYJ822	Chip, 8.2k Ω 1/10W	
R60	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R201	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R202	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R204	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	A
R205	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	A
R207	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R225	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R226	ERJ6GEYJ333	Chip, 33k Ω 1/10W	
R230	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R232	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R235	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R237	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R240	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R242	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R255	ERJ6GEYJ562	Chip, 5.6k Ω 1/10W	
R256	ERJ8GEYJ472V	Chip, 4.7k Ω 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R257	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R260	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R261	ERJ6GEYJ151	Chip, 150 Ω 1/10W	
R262	ERJ8GEYJ103V	Chip, 10k Ω 1/8W	
R263	ERJ8GEYJ822V	Chip, 8.2k Ω 1/8W	
R264	ERJ8GEYJ433V	Chip, 43k Ω 1/8W	
R267	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R268	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R270	ERJ6GEYJ151	Chip, 150 Ω 1/10W	
R271	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R276	ERJ6GEYJ470	Chip, 47 Ω 1/10W	
R277	ERJ6GEYJ470	Chip, 47 Ω 1/10W	
R278	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R280	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R281	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R282	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R283	ERJ6GEYJ123	Chip, 12k Ω 1/10W	
R284	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R298	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R299	ERJ6GEYJ912	Chip, 9.1k Ω 1/10W	
R301	ERJ8GEYJ183V	Chip, 18k Ω 1/8W	
R302	ERJ6GEYJ183	Chip, 18k Ω 1/10W	
R304	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	A
R305	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	A
R307	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R330	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R332	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R335	ERJ6GEYJ221	Chip, 220 Ω 1/10W	
R337	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R340	ERJ6GEYJ561	Chip, 560 Ω 1/10W	
R342	ERJ8GEYJ561V	Chip, 560 Ω 1/8W	
R344	ERDS2TJ223	Carbon, 22k Ω 1/4W	
R360	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R380	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R381	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R382	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R383	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R384	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R401	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R402	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R403	ERJ6GEYJ471	Chip, 470 Ω 1/10W	
R405	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R406	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R407	ERJ8GEYJ100V	Chip, 10 Ω 1/8W	
R502	ERJ6GEYJ184	Chip, 180k Ω 1/10W	B

Ref. No.	Part No.	Part Name & Description	Remarks
R503	ERJ6GEYJ102	Chip, 1k Ω 1/10W	A
R504	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	A
R603	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R604	ERJ6GEYJ363V	Chip, 36k Ω 1/10W	
R605	ERJ6GEYJ104	Chip, 100k Ω 1/10W	
R611	ERJ8GEYJ681V	Chip, 680 Ω 1/8W	
R614	ERJ8GEYJ223V	Chip, 22k Ω 1/8W	
R615	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R625	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R626	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R627	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R628	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R629	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R634	ERJ6GEYJ330	Chip, 33 Ω 1/10W	
R636	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R638	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R640	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R641	ERJ14YJ1R0H	Chip, 1 Ω 1/4W	
R642	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R643	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R644	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R645	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R646	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R647	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R648	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R649	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R650	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R651	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R652	ERJ6GEYJ473	Chip, 47k Ω 1/10W	A
R660	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R661	ERJ6GEYJ393	Chip, 39k Ω 1/10W	
R662	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R663	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R671	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R672	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R673	ERJ6GEYJ331	Chip, 330 Ω 1/10W	
R674	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R675	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R676	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R680	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R681	ERJ8GEYJ102V	Chip, 1k Ω 1/8W	
R682	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R683	ERJ6GEYJ273	Chip, 27k Ω 1/10W	
R684	ERJ6GEYJ184	Chip, 180k Ω 1/10W	
R701	ERDS2FJ470	Carbon, 47 Ω 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R703	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R704	ERJ8GEYJ684V	Chip, 680k Ω 1/8W	
R705	ERJ6GEYJ223	Chip, 22k Ω 1/10W	
R706	ERJ8GEYJ124V	Chip, 120k Ω 1/8W	
R707	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R708	ERJ6GEYJ472	Chip, 4.7k Ω 1/10W	
R709	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R710	ERDS1FJ561	Carbon, 560 Ω 1/2W	
R712	ERJ14YJ1R0H	Chip, 1 Ω 1/4W	
R713	ERDS1FJ181	Carbon, 180 Ω 1/2W	
R714	ERDS1FJ102	Carbon, 1k Ω 1/2W	
R715	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R716	ERDS1FJ681	Carbon, 680 Ω 1/2W	
R801	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R802	ERJ8GEYJ152V	Chip, 1.5k Ω 1/8W	
R804	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
CONNECTORs			
CJ620	YEAET14B140C	Connector, 14P FFC	
CJ651	YEAE0616YAA	Connector, 6P	A
CN201	YEAE012504	Connector, RCA REAR-OUT	A
CN270	YEAE012647	Connector, RCA S/W-OUT	
CN280	YEAE012503	Connector, 1P RCA	A
CN300	YEAE02166	Connector, 4P RCA	B
CN301	YEAE012505	Connector, RCA FRONT-OUT	A
CN620	YEAE012763	Connector, 14P	
CN650	YEAE012307	Connector, 8P DIN	A
CN701	YEAE012748	Connector, 16P	
CP640	YEAE0115MX	Connector, 15P	
CP642	YEAE0104MX	Connector, 4P	
SWITCHEs			
SW601	YEAS08042	Switch	
SW610	YEAS09267	Switch	
CRYSTALs			
XL601	YEXL49U0450T	Crystal OSC	
COILs			
BPF50	YEXC07T009	Coil	
L50	YELT02M330KT	Coil	
L620	YELT02C101KT	Coil	
L640	YELTBLM32A06	Coil	
L641	YELTBLM32A06	Coil	
L702	YETQ026F143	Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L800	ELEH330KA	Coil	
LAMPs			
Z50	J0LE00000002	Neon Lamp	
THERMISTORs			
PH720	YERT7AR4R7MT	Thermistor	
[E-8984B] Display Block			
ICs AND TRANSISTORs			
IC901	YEAMLC75884W	IC	
IC905	YEAMPASB06B2	IC	
Q931	YEANSSTA06T	Transistor	
Q932	YEANSSTA06T	Transistor	
DIODEs			
D900	LN1271RAL	LED	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8047MTX	Diode	
D961	MA8056LMHTX	Diode	
D962	MA8056LMHTX	Diode	
D963	MA8056LMHTX	Diode	
D964	MA8056LMHTX	Diode	
D965	MA8056LMHTX	Diode	
CAPACITORs			
C910	YECUS1H102KX	Ceramic, 0.001 μF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C923	YECUS1H681JM	Ceramic, 680PF 50WV	
C931	ECEV1CA101WP	Electrolytic, 100 μF 16WV	
C932	YECUS1C104KX	Ceramic, 0.1 μF 16WV	
C933	F0F2A2230001	Plastic Film, 0.022 μF 100WV	
C934	F1L3F1200001	Ceramic, 12PF 3000WV	
RESISTORs			
R906	ERJ6GEYJ332	Chip, 3.3k Ω 1/10W	

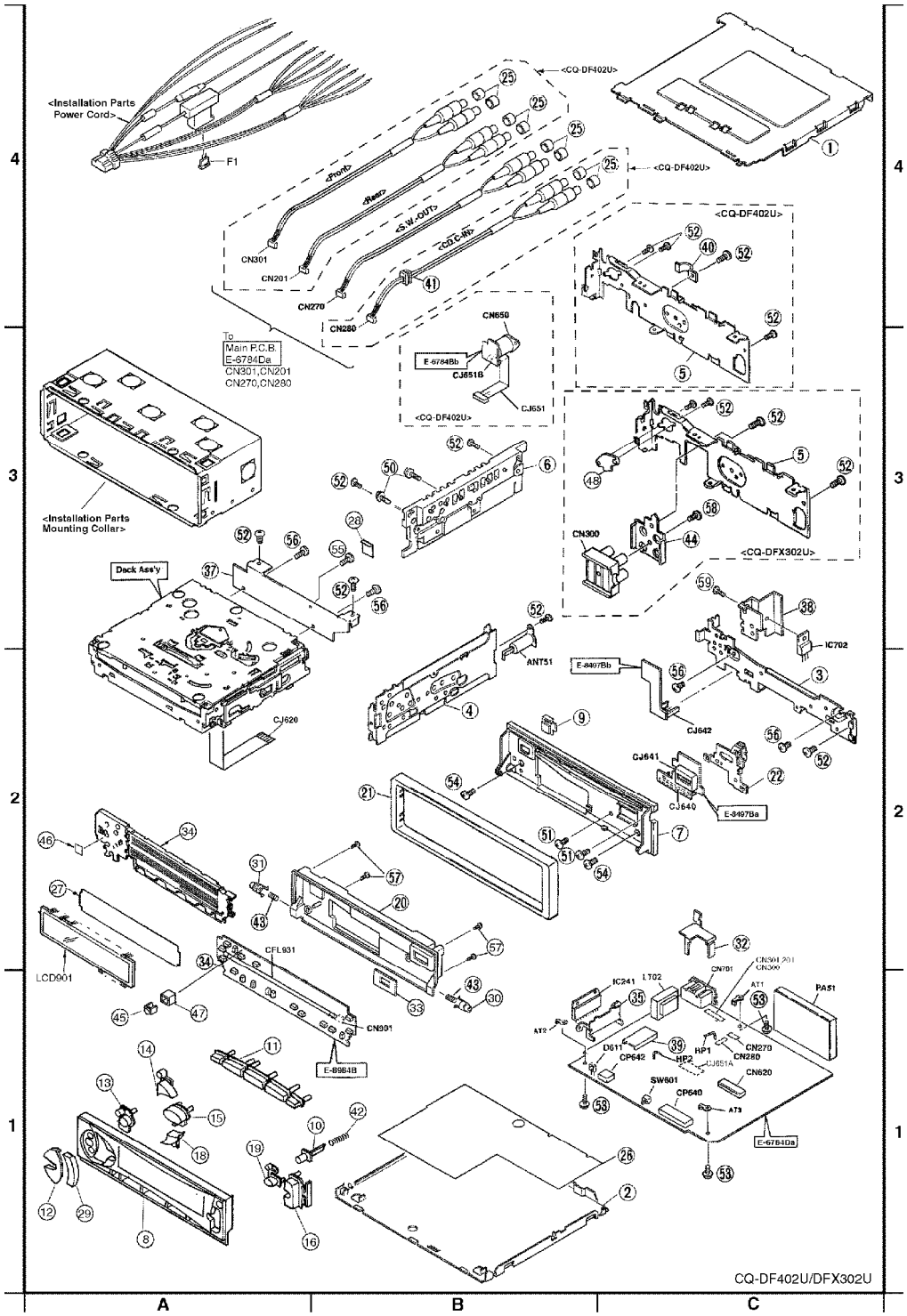
Ref. No.	Part No.	Part Name & Description	Remarks
R907	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R908	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R909	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R910	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R911	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R931	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R932	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R941	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R942	ERJ6GEYJ433V	Chip, 43k Ω 1/10W	
R961	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
R962	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
R963	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
R964	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
R965	ERJ6GEYJ682	Chip, 6.8k Ω 1/10W	
CONNECTOR			
CN901	YEAE012760	Connector, 14P	
SWITCHEs			
SW901	K0H1BA000285	Switch	
SW902	K0H1BA000285	Switch	
SW903	K0H1BA000285	Switch	
SW904	K0H1BA000285	Switch	
SW905	K0H1BA000285	Switch	
SW906	K0H1BA000285	Switch	
SW907	K0H1BA000285	Switch	
SW908	K0H1BA000285	Switch	
SW909	YEAS09312	Switch	
SW910	K0H1BA000285	Switch	
SW911	K0H1BA000285	Switch	
SW912	K0H1BA000285	Switch	
SW913	K0H1BA000285	Switch	
SW914	K0H1BA000285	Switch	
SW915	YEAS09312	Switch	
SW916	K0H1BA000285	Switch	
SW917	K0H1BA000285	Switch	
SW918	K0H1BA000285	Switch	
COILs			
L901	ETJ11K92AM	Transformer	
L931	YELTD75F101T	Coil	
LCD			
LCD901	L5ACBLC00002	LCD Display	

Ref. No.	Part No.	Part Name & Description	Remarks
LAMP			
CFL931	A2CA00000019	Display Tube	
[E-8497B] Sub Block			
DIODEs			
D642	LNJ306G5TUWQ	LED	
D643	LNJ306G5TUWQ	LED	
CONNECTORs			
CJ640	K1KA15A00096	Connector, 15P	
CJ642	K1KA04A00296	Connector, 4P	
CP641	YEAE012761	Connector, 14P	
SWITCHEs			
SW610	YEAS09267	Switch	
Accessories			
PRINTING			
	YEFM283862	Operating Instructions	
INSTALLATION PARTs			
	YEAJ02792	Power Connector	
	CR2025/1F	Battery	
	YEFA131617	Case, Detachable Unit	
	YEFG04019	Rear Support Strap	
	YEFX0214198	Mounting Collar	
	YEFX9992013	Remote Controller	
	YEP9FZ2714	Screws Kit	
Mechanical Parts			
MISCELLANEOUs			
F1	YEAF02015	Fuse, 15A	⚠
FU931	YEAFSSFC0R4A	Fuse, 0.4A	⚠
ANT51	YGAA10082	Antenna Receptacle	
AT1	YEAT03420	Terminal	
AT2	YEAT03420	Terminal	
AT3	YEAT03420	Terminal	
HP1	YEAT03324	Terminal	A
HP2	YEAT03324	Terminal	A
1	YEFA031359E	Upper Cover	(4-C)
2	YEFA05594B	Bottom Cover	(1-C)
3	YEP9FX178	Front Plate Ass'y	(2-C)
4	YEFA09508	Side Plate	(2-B)
5	YEFA08516AK	Rear Plate	A(3-C)

Ref. No.	Part No.	Part Name & Description	Remarks
5	YEFA08517AK	Rear Plate	B(3-C)
6	YEFF01921	Heat Sink	(3-B)
7	YEFC025658A	Escutcheon Ass'y, Unit	(2-C)
8	YEFC027604	Escutcheon Ass'y, Detachable	A(1-A)
8	YEFC027602	Escutcheon Ass'y, Detachable	B(1-A)
9	YEFE135147	Button, EJECT	(2-B)
10	YEFE136599	Button, OPEN	(1-A)
11	YEFE136582B	Button, PRESET	(1-A)
12	YEFE136551	Button, VOL	(1-A)
13	YEFE136552	Button, SEL	(1-A)
14	YEFE136553	Button, BAND	(1-A)
15	YEFE136555	Button, TUNE/TRACK	(1-A)
16	YEFE136581	Button, REP/LEVL	(1-A)
18	YEFE136559	Button, LOUD	(1-A)
19	YEFE136556	Button, SOURCE	(1-A)
20	YEFA131561	Rear Cover, Detachable	(2-B)
21	YEFC05581	Trim Plate	(2-B)
22	YEP9FX069	Hook Bracket Ass'y	(2-C)
25	YEFR04187	Lead Cap	(4-B)
26	YEFV011813	Insulator	(1-C)
27	YEFV021596	Optical Shade	(2-A)
28	YEFV011890	Insulator	(3-B)
29	YEFX0012124	Transparent Plate	(1-A)
30	YEFW04156	Shaft Collar	(1-B)
31	YEFW04157	Shaft Collar	(2-A)
32	YEFX0215877	Bracket, CN701	(2-C)
33	YEFV011928	Insulator	(1-B)
34	YEFX0012125	Transparent Plate	(2-A)
35	YEFX0213945B	Bracket, IC241	(1-C)
37	YEFX0214481	Bracket, Deck	(3-A)
38	YEFX0215885	Bracket, IC702	(3-C)
39	YEFX0214168	Bracket, IC704	(1-C)
40	YEFX007082	Cord Clamper	A(4-C)
41	YEFX007380	Cord Clamper	(4-B)
42	YEFX0052396	Spring	(1-B)
43	YEFX0052253	Spring	(2-A) (1-B)
44	YEFX0213650	Bracket, RCA	B(3-C)
45	YEFX0012170	Transparent Plate	(1-A)
46	YEFV021781	Optical Shade	(2-A)
47	YEFK06967	Holder	(1-A)
48	YEFX0214689	Bracket, DIN	B(1-A)
49	YEFS011828	Pad (E-6784D)	
50	YEJS06092	Screw, 3mm * 10mm	
51	YEJS03020	Screw, 2mm * 4mm	
52	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
53	YEJT03009	Tapping Screw, 3mm * 8mm	
54	YEJT03156	Tapping Screw, 2.6mm * 5mm	
55	XTB2+5FFX	Tapping Screw, 2mm* 5mm	
56	XTB26+6GFX	Tapping Screw, 2.6mm * 6mm	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	
58	XTB3+8GFX	Tapping Screw, 3mm * 8mm	
59	YEJS06017	Screw, 3mm * 8mm	

Ref. No.	Part No.	Part Name & Description	Remarks

12. EXPLODED VIEW (Unit)



13. CD PLAYER PARTS LIST

Notes :

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by ⚠ ; mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
5. **"A" marks in remarks column are indicated supply parts of Audio Division(AD) in Matsushita Electric Industrial Co., Ltd.(MEI)**
6. **"V" marks in remarks column are indicated supply parts of Video System Division(VSD) in Matsushita Electric Industrial Co., Ltd.(MEI)**

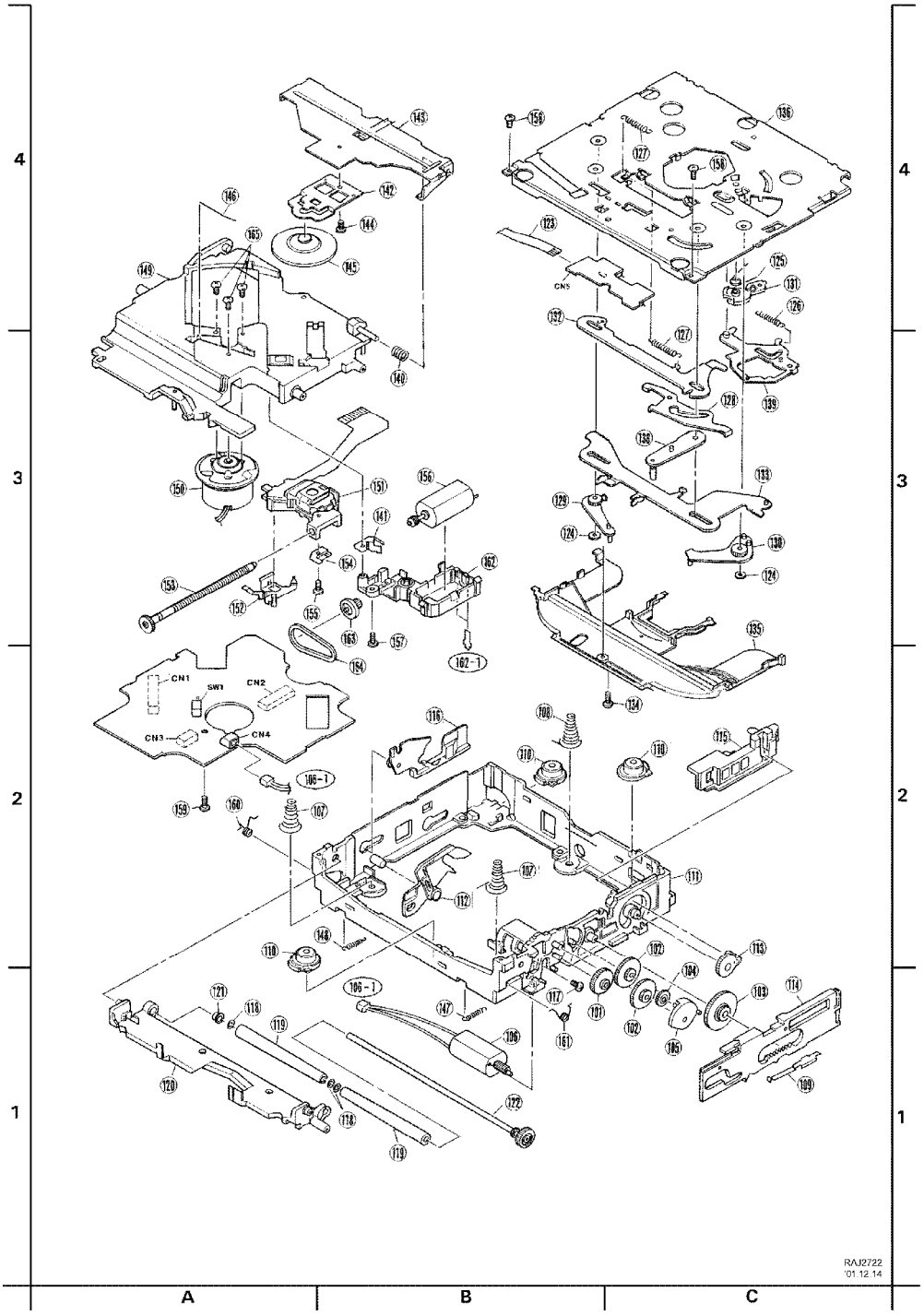
Ref. No.	Part No.	Part Name & Description	Remarks
[VJB62115] CD Servo Block			
IC's AND TRANSISTORs			
IC1	C1BB00000665	IC	V
IC2	C0GBE0000012	IC	V
IC3	C2BBFD000355	IC	V
Q1	2SA1037AKTXR	Transistor	V
CAPACITORs			
C1,2	ECUX1H103KBV	Chip, 0.01 μ F 50WV	V
C3	ECEA0JKA101	Electrolytic, 100 μ F 6.3WV	
C4	ECUX1C104KBV	Chip, 0.1 μ F 16WV	V
C5	ECUX1H105JCV	Chip, 15PF 50WV	V
C6	ECUX1H040CCV	Chip, 4PF 50WV	V
C7	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C8	ECUX1H560JCV	Chip, 56PF 50WV	V
C9	ECUX1H101JCV	Chip, 100PF 50WV	V
C10	ECUX1C104KBV	Chip, 0.1 μ F 16WV	V
C11	RCSX0J336RE	Tantalum, 33 μ F 6.3WV	V
C12	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C14,15	ECUX1H222KBV	Chip, 0.0022 μ F 50WV	V
C16	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C19-22	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C23	ECUX1H103KBV	Chip, 0.01 μ F 50WV	V
C24,25	ECUX1C104KBV	Chip, 0.1 μ F 16WV	V
C26	ECUX1H272KBV	Chip, 0.0027 μ F 50WV	V
C27	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C28	ECUX1H103KBV	Chip, 0.01 μ F 50WV	V
C29	F2A0J470A009	Electrolytic, 47 μ F 6.3WV	V
C30	ECUM1C224KBN	Chip, 0.22 μ F 16WV	V
C31	ECUX1H103KBV	Chip, 0.01 μ F 50WV	V
C32	ECUX1C104KBV	Chip, 0.1 μ F 16WV	V
C33	RCE0JPK221IG	Electrolytic,220 μ F 6.3WV	V
C34	ECUX1C104KBV	Chip, 0.1 μ F 16WV	V
C35	ECEA0JKA101	Electrolytic,100 μ F 6.3WV	V
C36	ECEA1AKA221	Electrolytic,220 μ F 10WV	V
C37	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C38	ECEA0JKA221	Electrolytic,220 μ F 6.3WV	
C39	ECUX1H102KBV	Chip, 0.001 μ F 50WV	V
C41	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C42	ECUX1H221JCV	Chip, 220PF 50WV	V
C43	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V
C45	ECUX1C104ZFV	Chip, 0.1 μ F 16WV	V

Ref. No.	Part No.	Part Name & Description	Remarks
C46	ECUV1H103KBV	Chip, 0.01 μ F 50WV	V
RESISTORs			
R0	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R1	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R2	ERJ3GEYJ330V	Chip, 33 Ω 1/16W	
R3	ERJ3GEYJ752V	Chip, 7.5k Ω 1/16W	
R4,5	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/16W	
R7	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R10,11	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	
R13	ERJ3GEYJ2R2V	Chip, 2.2 Ω 1/16W	
R14	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R15	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R16,17	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R18	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R19	ERJ3GEYJ183V	Chip, 18k Ω 1/16W	
R20	ERJ3GEYJ100V	Chip, 10 Ω 1/16W	
R21	ERJ3GEYJ1R8V	Chip, 1.8 Ω 1/16W	
R22	ERJ3GEYJ100V	Chip, 10 Ω 1/16W	
R23	ERJ3GEYG101V	Chip, 100 Ω 1/16W	
R24-26	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R27	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R28,29	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R30	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R31	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R32	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R33	ERJ3GEYG102V	Chip, 1k Ω 1/16W	
R34,35	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
R36-38	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R39	ERJ3GEYJ154V	Chip, 150k Ω 1/16W	
R40	ERJ3GEYJ394V	Chip, 390k Ω 1/16W	
R41	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
NETWORK RESISTORs			
RA1,2	D1H44732A001	Network Resistor	V
RA3	D1H847240002	Network Resistor	V
RA4	MNR14EABJ102	Network Resistor	V
RA5	EXBV8V473J	Network Resistor	V
OSCILLATORs			
X1	H2B491400002	Ceramic Oscilator	V
X2	H2D169300002	Ceramic Oscilator	V
SWITCHEs			

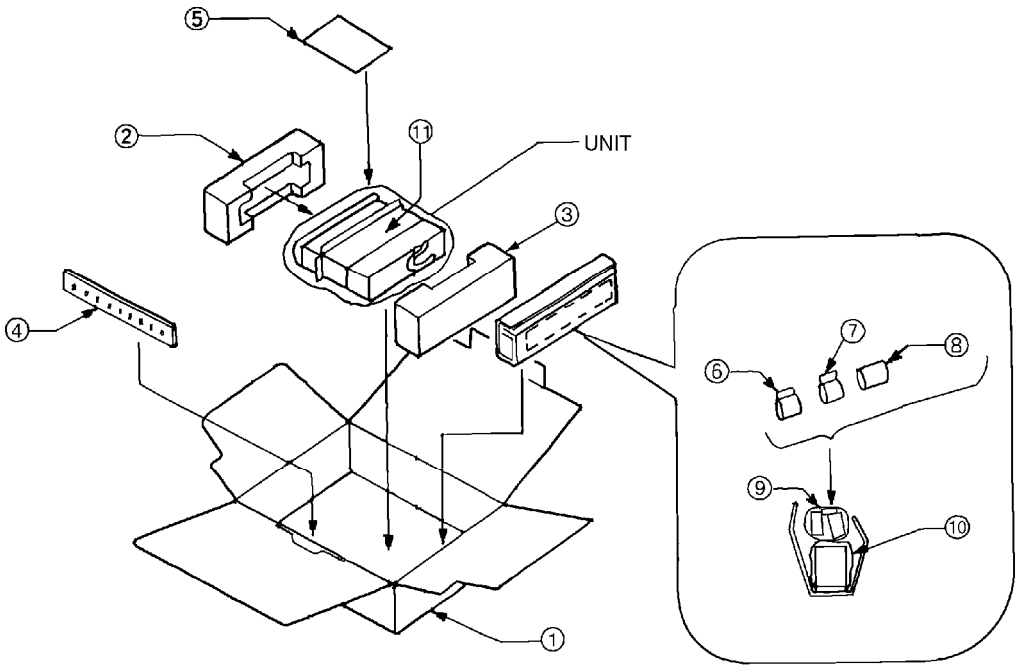
Ref. No.	Part No.	Part Name & Description	Remarks
SW1	ESE11SH2	SW	V
SW2	RSP1A015-A	SW	V
SW3	RSP1A015-A	SW	V
SW4	RSP1A015-A	SW	V
CONNECTORs			
CN1	RJS2A1816T	Connector,16P	V
CN2	VJS3406D014	Connector,14P	V
CN3	RJS1A7105T	Connector,5P	V
CN4	RJP2G17ZA	Connector,2P	V
MISCELLANEOUS			
101	RDG0350	Gear	V(1-B)
102	RDG0351	Gear N2	V(1-C)
103	RDG0352	Loading Gear	V(1-C)
104	RDG0353	Roller Drive Gear	V(1-C)
105	RDG0354	Roller Drive Arm	V(1-C)
106	REM0060	Loading Motor	V(1-B)
106-1	REE0669	Lead Wire	V(2-A) (1-B)
107	RMB0465	Spring	V(2-A) (2-B)
108	RMB0466	Spring	V(2-A)
109	RMC0292	Main Slider Spring	V(1-C)
110	RMG0408-K	Insullator	V(2-A) (2-B)
111	RMK0309	Mechanism Frame	V(2-B)
112	RML0432	Lock Arm	V(2-B)
113	RML0433	Drive Arm	V(2-C)
114	RMR0952-W	Main Slider	V(1-C)
115	RMR0953-W	Lift Slider	V(2-C)
116	RMR0954-W	Lock Slider	V(2-B)
117	XYN2+C6	Screw,2mm * 5mm	V(1-B)
118	RHW31005	Washer	V(1-A)
119	RMG0382-H	Rubber Roller	V(1-A)
120	RML0434	Roller Arm	V(1-A)
121	RMR0769-W	Roller Bering	V(1-A)
122	RXJ0017	Roller Shaft	V(1-B)
123	REE0668	Flexible PCB	V(4-B)
124	RHW27004	Washer	V(3-C)
125	RMB0461	Spring	V(4-C)
126	RMB0468	Spring	V(4-C)
127	RMB0489	Spring	V(4-C) (3-C)
128	RML0428	Switch Lever	V(3-C)
129	RML0430	Trigger Lever L	V(3-C)
130	RML0431	Trigger Lever R	V(3-C)
131	RML0435	Lock Lever	V(4-C)
132	RMM0155	Slider A	V(3-C)
133	RMM0156	Slider B	V(3-C)
134	RMQ0597	Screw	V(2-C)
135	RMR0951-W	Disc Guide	V(2-C)
136	RXK0201	Upper Chssis	V(4-C)
138	RXL0135	CD Detect Lever R	V(3-C)
139	RXL0136	Control Arm	V(3-C)
140	RMB0462	Spring	V(3-B)

Ref. No.	Part No.	Part Name & Description	Remarks
141	RMC0295	Drive Shaft Retainer	V(3-B)
142	RMC0293	Clamper Retainer	V(4-B)
143	RML0429	Clamp Arm	V(4-B)
144	RMQ0467	Screw	V(4-B)
145	RMR0956-W	Clamper	(4-B)
146	RMB0345-2	Spring	V(4-A)
147	RMB0445	Spring	V(1-B)
148	RMB0467	Spring	V(2-B)
149	RXK0199	Traverse Chassis	V(4-A)
150	RFKPAJ2751K	Spindle Motor	V(3-A)
151	RAF0143A	Oprical Pickup	V(3-B)
152	RMC0294	Optical Pickup Retainer	V(3-A)
153	RXJ0018	Drive Shaft	V(3-A)
154	RXQ0474	Boad Nut	V(3-B)
155	XQN17+BG45	Screw	V(3-B)
156	REM0061	Traverse Motor	V(3-B)
157	XTW2+6S	Screw,2mm * 6mm	V(3-B)
158	XQN2+CJ8	Screw,2mm * 8mm	V(4-C)
159	XTW2+6S	Screw,2mm * 6mm	V(2-A)
160	RMB0463	Spring	V(2-A)
161	RMB0464	Spring	V(1-B)
162	RXQ0476	Holder	V(3-B)
162-1	RMA0921	Terminal Board	V(3-B)
163	RDP0084	Pulley	V(3-B)
164	RDV0030	Belt	V(2-B)
165	RMQ0461	Screw	V(4-A)

14. EXPLODED VIEW (CD Deck)



15. PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Packing Pad Front	1	Not available
3	-	Packing Pad Rear	1	Not available
4	YEFG04019	Rear Support Strap	1	
5	YEP9PR3615 YEP9PR3614 YEFM283862	Instruction Book Kit (CQ-DF402U) Instruction Book Kit (CQ-DFX302U) Instruction Book Warranty Card for USA Warranty Card for Canada Servicenter List	1 (1) (1) (1)	Not available Not available Not available
6	YEP9FZ2714	Screw Kit	1	
7	CR2025/1F	Battery	1	
8	YEFX9992013	Remote Control Unit	1	
9	YEAJ02792	Power Connector	1	
10	YEFA131617	Removal Face Plate Case	1	
11	YEFX0214198	Mounting Collar	1	

16. WIRING DIAGRAM

16.1. Display Block

16.2. Sub. Block

16.3. Main Block (Top View)

16.4. Main Block (Bottom View)

16.5. CD Servo Block (Top View)

16.6. CD Servo Block (Bottom View)

17. SCHEMATIC DIAGRAM (1)

17.1. Sub. Block

18. SCHEMATIC DIAGRAM (2)

18.1. Display Block

18.2. Main Block

18.3. CD Servo Block

19. SCHEMATIC DIAGRAM for Printing with Letter Size

19.1. Display Block (Left Side)

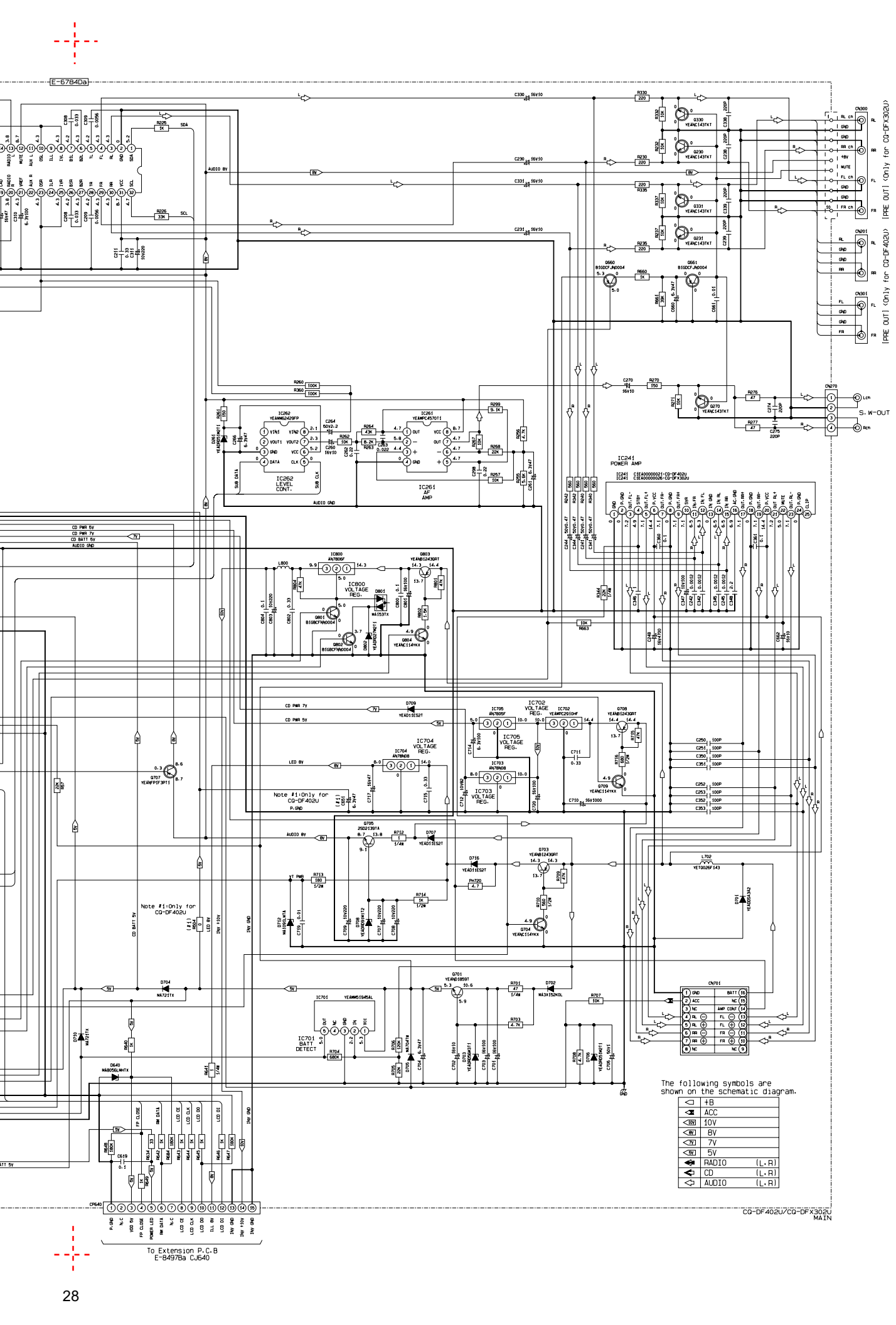
19.2. Display Block (Right Side)

19.3. Main Block (Left Side)

19.4. Main Block (Right Side)

19.5. CD Servo Block (Left Side)

19.6. CD Servo Block (Right Side)


E-6784Da
IC262 LEVEL CONT.
IC261 AF AMP
IC241 POWER AMP
IC800 VOLTAGE REG.
IC702 VOLTAGE REG.
IC705 VOLTAGE REG.
IC704 VOLTAGE REG.
IC703 VOLTAGE REG.
IC701 BATT DETECT
Note #1:Only for CG-DF402U
The following symbols are shown on the schematic diagram.
+B
ACC
10V
8V
7V
5V
RADIO (L,R)
CD (L,R)
AUDIO (L,R)
To Extension P.C.B E-8497Ba CJ640
CG-DF402U/CG-DFX302U MAIN

VJB62115

LOADING MOTOR

SPINDLE MOTOR

TRAVERSE. M

TRACKING-COIL

FOCUS-COIL

To Main P.C.B.
E-6784Da CN620

IC1
C1BB00000665

IC2
C0GBE0000012

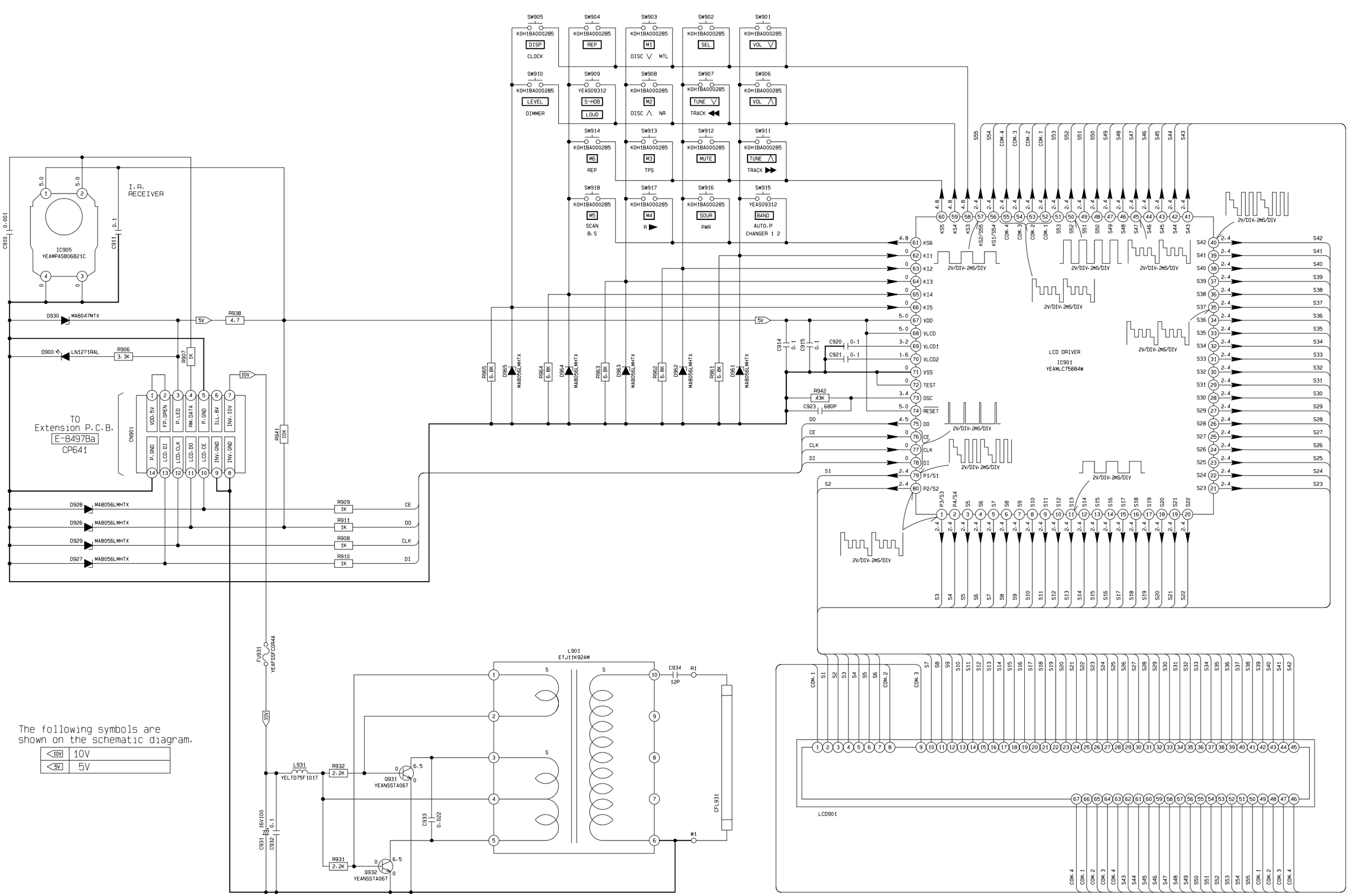
IC3
C2BBFD000355

Additional P.C.B.

0.5V
0.2V/DIV, 0.5μS/DIV

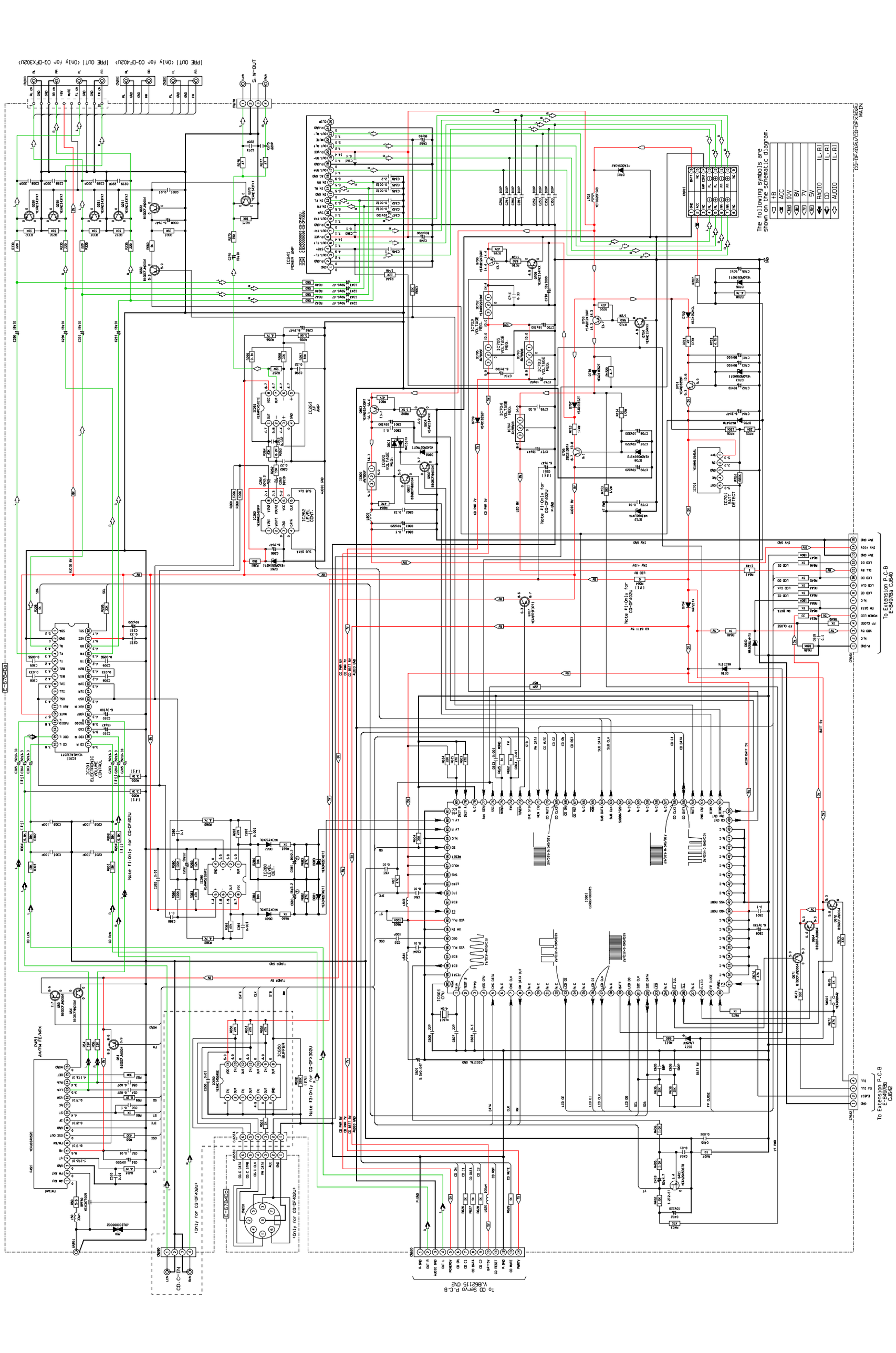
The following symbols are shown on the schematic diagram.

7.5V	7V
5V	5V
	AUDIO (L, R)


SW905 KOH1BA000285 DISP CLOCK
SW904 KOH1BA000285 REP
SW903 KOH1BA000285 M1 DISC ∨ MTL
SW902 KOH1BA000285 SEL
SW901 KOH1BA000285 VOL ∨
SW910 KOH1BA000285 LEVEL DIMMER
SW909 YEAS09312 S-HDB LOUD
SW908 KOH1BA000285 M2 DISC ∧ NR
SW907 KOH1BA000285 TUNE ∨ TRACK ◀◀
SW906 KOH1BA000285 VOL ∧
SW914 KOH1BA000285 M6 REP
SW913 KOH1BA000285 M3 TPS
SW912 KOH1BA000285 MUTE
SW911 KOH1BA000285 TUNE ∧ TRACK ▶▶
SW918 KOH1BA000285 M5 SCAN B.S
SW917 KOH1BA000285 M4 R ▶
SW916 KOH1BA000285 SOUR PWR
SW915 YEAS09312 BAND AUTO.P CHANGER 1 2
I.R. RECEIVER
IC905 YEAMPAS06821C
C910 0.001
C911 0.1
D930 MA8047MTX
D900 LN1271RAL
R906 3.3K
R907 1K
R938 4.7
5V
10V
R941 10K
TO Extension P.C.B. E-8497Ba CP641
CN901
VDD.5V FP.OPEN P.LED RM.DATA P.GND ILL.8V INV.10V
P.GND LCD.DI LCD.CLK LCD.DO LCD.CE INV.GND INV.GND
D928 MA8056LMHTX R909 1K CE
D926 MA8056LMHTX R911 1K DO
D929 MA8056LMHTX R908 1K CLK
D927 MA8056LMHTX R910 1K DI
D965 D964 D963 D962 D961 MA8056LMHTX
R965 R964 R963 R962 R961 6.8K
C914 C915 0.1
C920 C921 0.1
R942 43K
C923 680P
LCD DRIVER IC901 YEAMLC75884W
KS6 KI1 KI2 KI3 KI4 KI5 VDD VLCD VLCD1 VLCD2 VSS TEST OSC RESET DO CE CLK DI P1/S1 P2/S2 P3/S3 P4/S4
COM.1 COM.2 COM.3 COM.4
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42
2V/DIV·2mS/DIV
FU931 YEAFSSFC004A
L901 ETJ11K92AM
C934 12P
R1
W1
CFL931
L931 YELTD75F101T
R932 2.2K
Q931 YEANSSTA06T
R931 2.2K
Q932 YEANSSTA06T
C933 0.022
C931 16V100
C932 0.1
LCD901

The following symbols are shown on the schematic diagram.

<10V>	10V
<5V>	5V


CD-DF402U/CD-DF302U
MAIN
The following symbols are shown on the schematic diagram.
+B
ACC
10V
8V
7V
5V
RADIO
CD
AUDIO
[PRE OUT] (Only for CD-DF402U) [PRE OUT] (Only for CD-DF302U)
S-W-OUT
To Extension P.C.B E-6497BB CJ640
To Extension P.C.B E-6497BD CJ642
To CD Servo P.C.B VJB6211S CN2
CD IN
(Only for CD-DF402U)
(Only for CD-DF402U)
E-6784DS
E-6784DS
Note f1:Only for CD-DF402U
Note f2:Only for CD-DF402U
Note f3:Only for CD-DF402U
IC201 ELECTRONIC VOLUME CONTROL
IC251 AMP
IC301 LEVEL DET.
IC302 LEVEL CONT.
IC401 POWER AMP
IC501 CPU
IC502 BUFFER
IC503 EEPROM
IC601 VOLTAGE REG.
IC602 VOLTAGE REG.
IC603 VOLTAGE REG.
IC604 VOLTAGE REG.
IC701 VOLTAGE DETECT
IC751 MUTE
IC752 MUTE
IC753 MUTE
IC754 MUTE
IC755 MUTE
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IC760 MUTE
IC761 MUTE
IC762 MUTE
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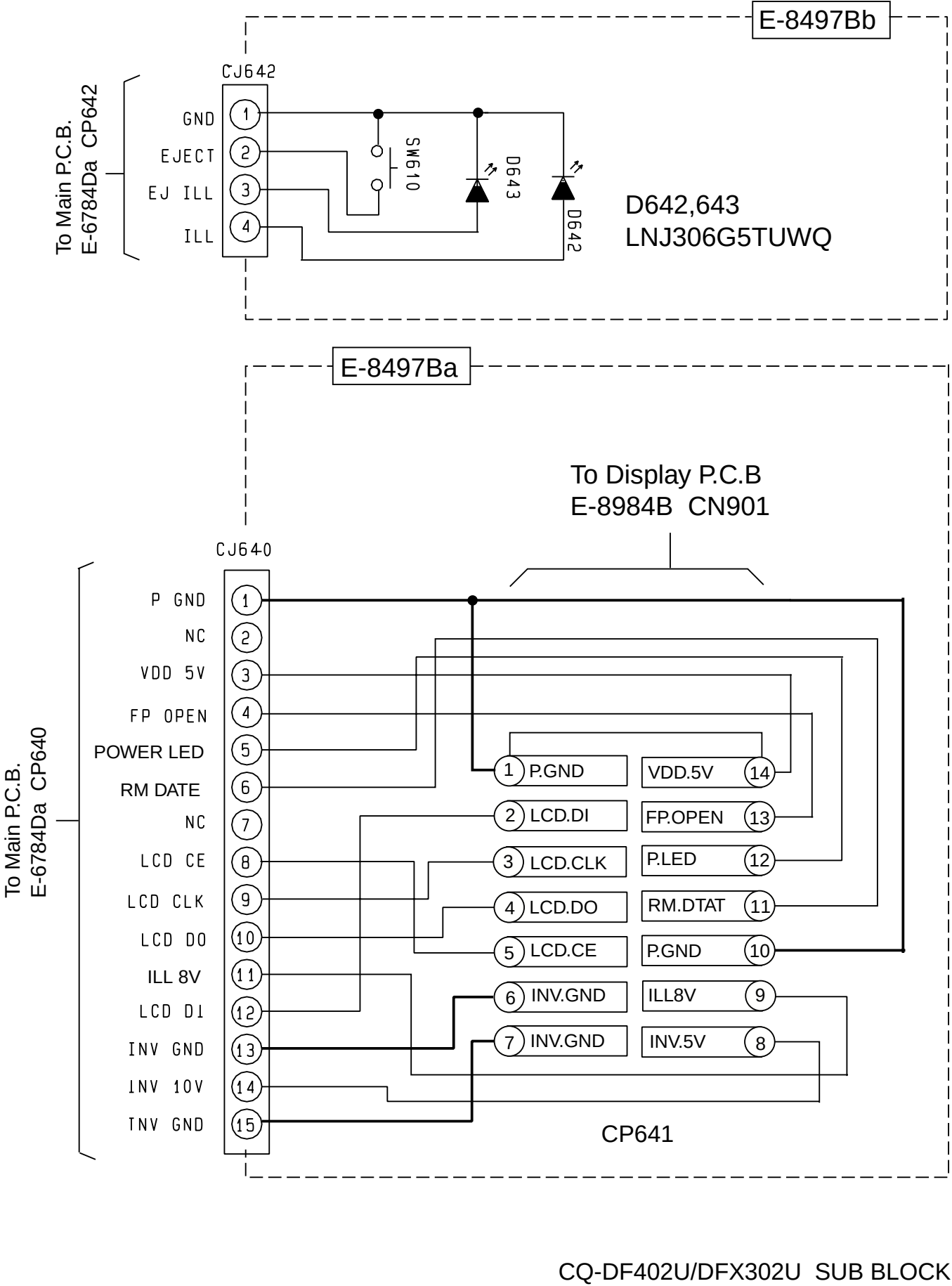
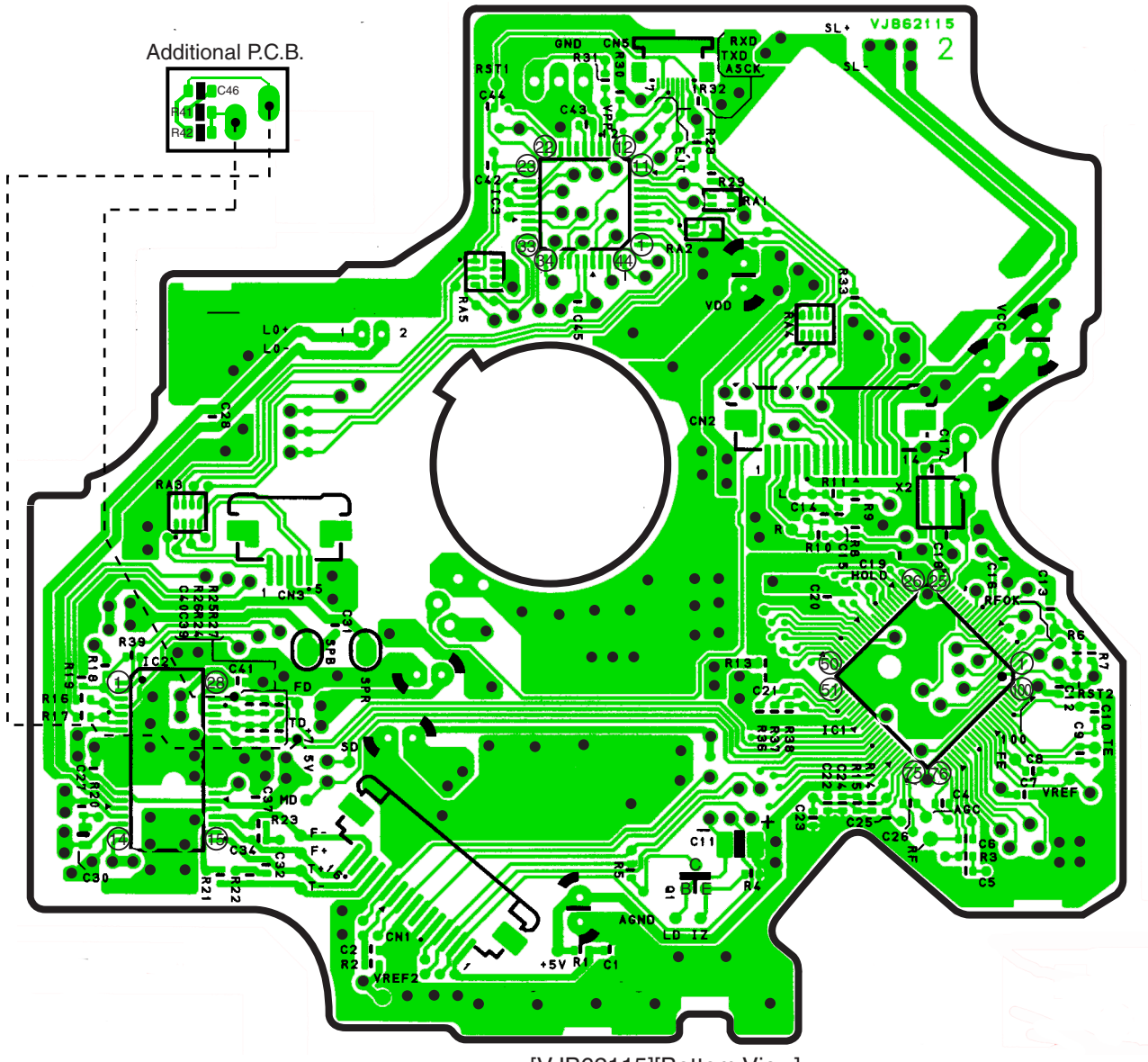
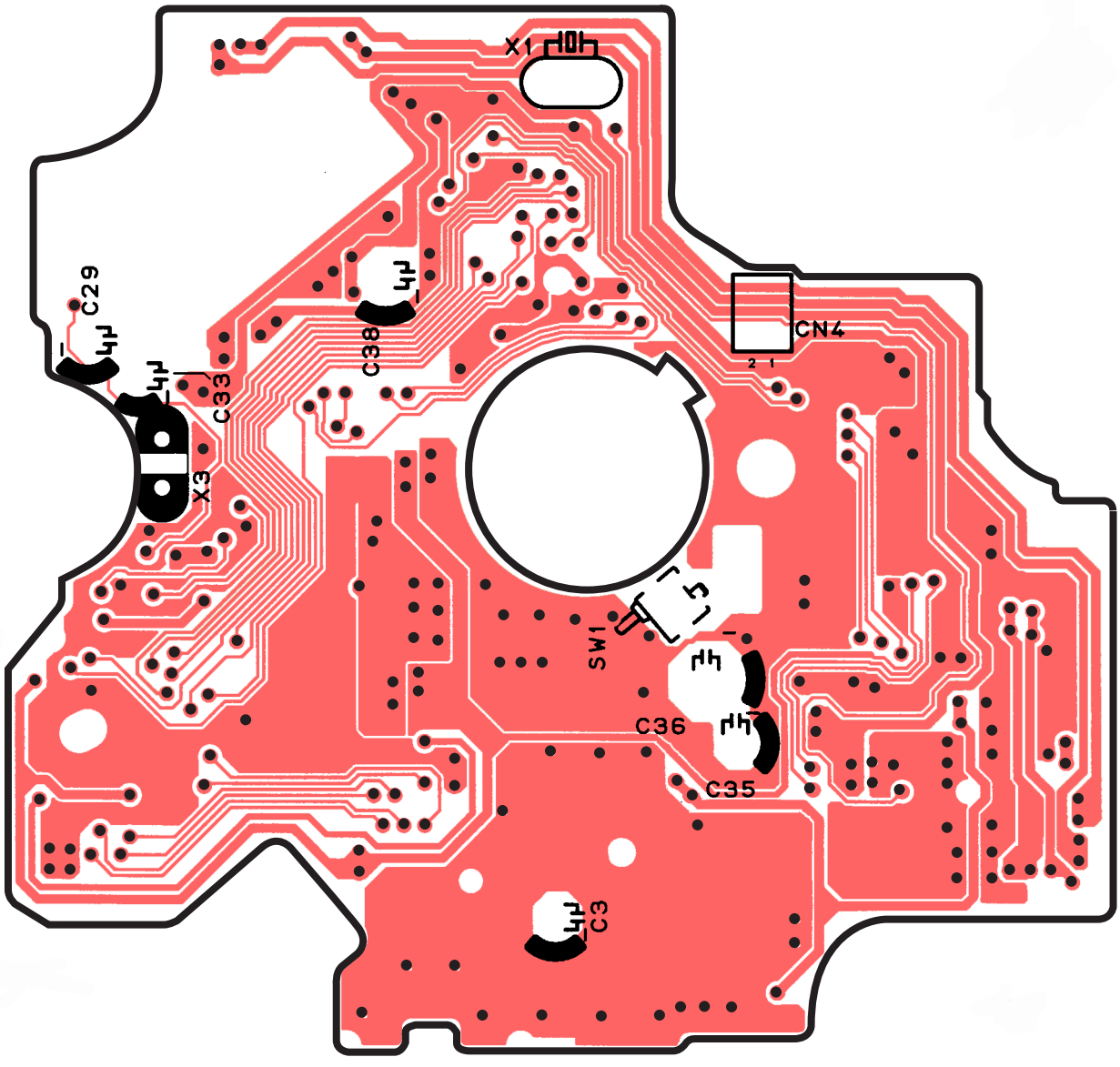
IC998 MUTE
IC999 MUTE
IC1000 MUTE


E-8497Bb
CJ642
GND
EJECT
EJ ILL
ILL
1
2
3
4
SW610
D643
D642
To Main P.C.B.
E-6784Da CP642
D642,643
LNJ306G5TUWQ
E-8497Ba
To Display P.C.B
E-8984B CN901
CJ640
P GND
NC
VDD 5V
FP OPEN
POWER LED
RM DATE
NC
LCD CE
LCD CLK
LCD DO
ILL 8V
LCD DI
INV GND
INV 10V
INV GND
1 P.GND
2 LCD.DI
3 LCD.CLK
4 LCD.DO
5 LCD.CE
6 INV.GND
7 INV.GND
VDD.5V 14
FP.OPEN 13
P.LED 12
RM.DTAT 11
P.GND 10
ILL8V 9
INV.5V 8
CP641
To Main P.C.B.
E-6784Da CP640

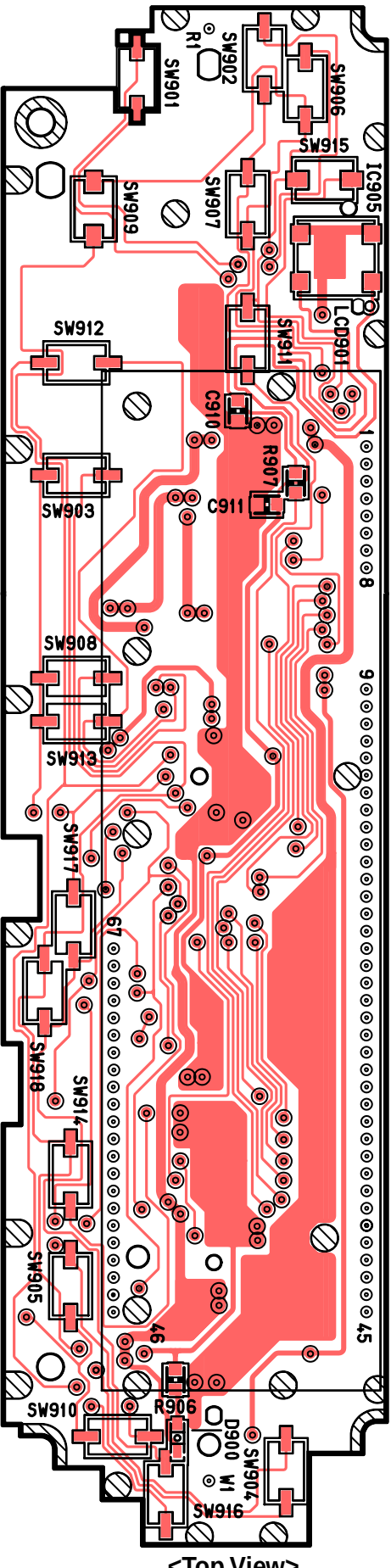


[VJB62115][Bottom View]

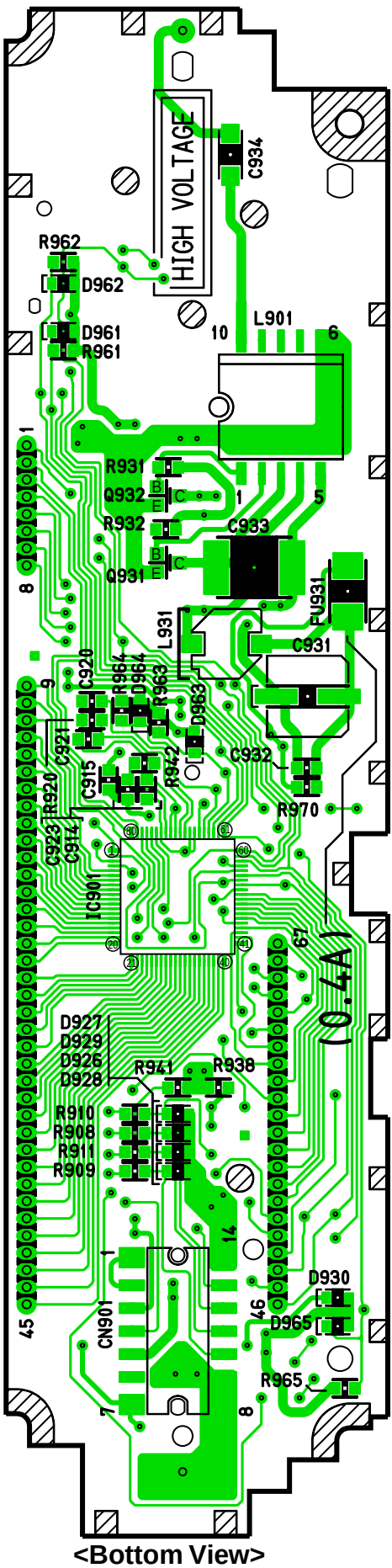


[VJB62115] [Top View]

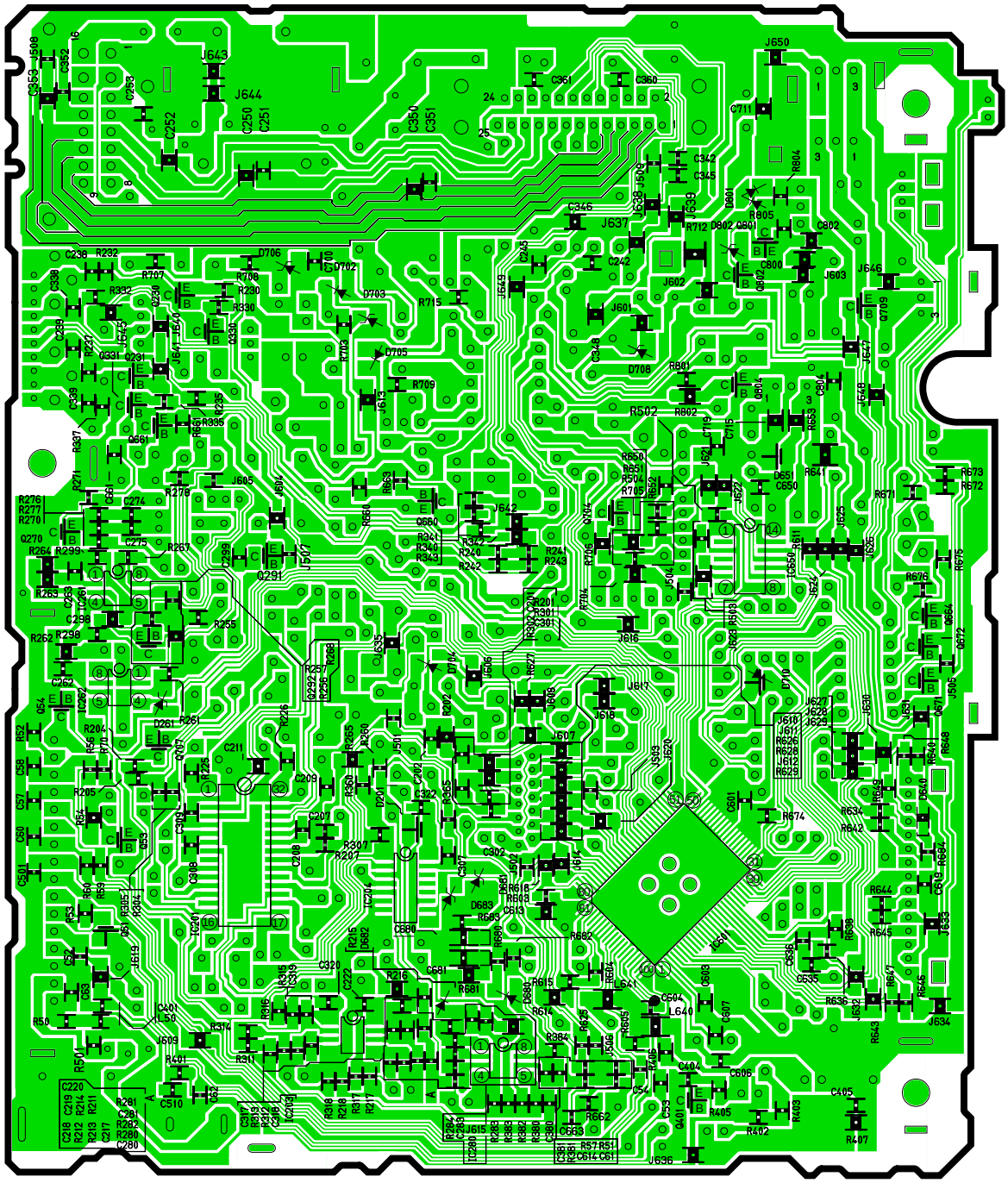
[E-8984B]



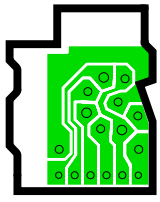
<Top View>



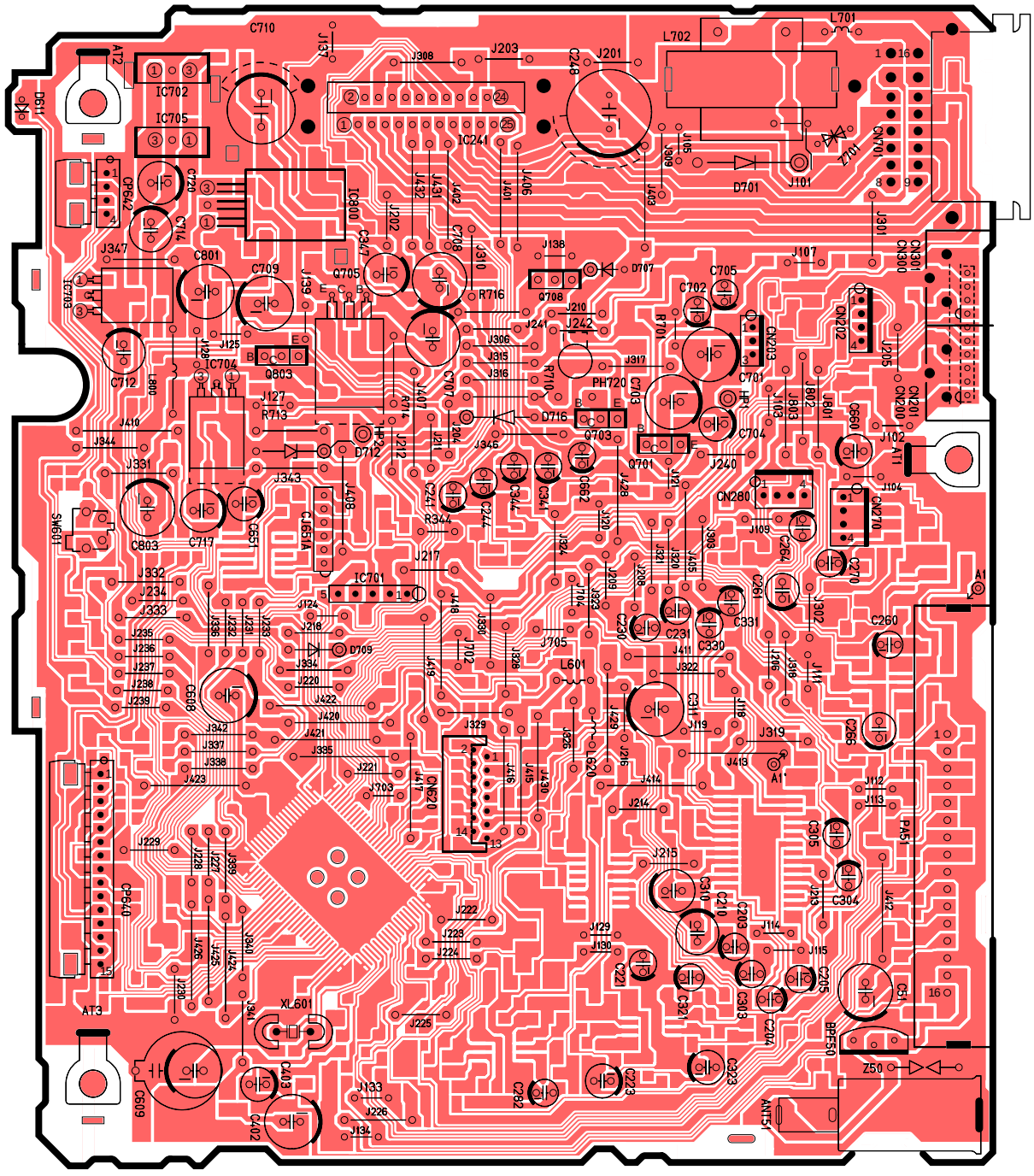
<Bottom View>



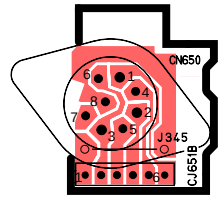
[E-6784Da][Bottom View]



[E-6784Db]
[Bottom View]



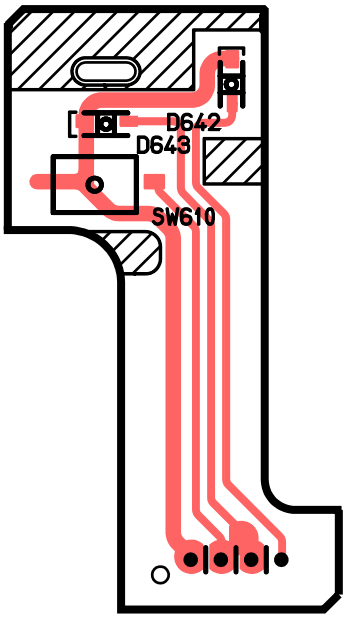
[E-6784Da][Top View]



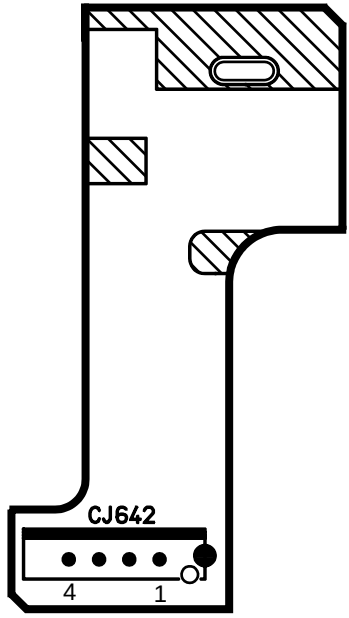
[E-6784Db]
[Top View]

CQ-DF402U/DFX302U MAIN

[E-8497Bb]

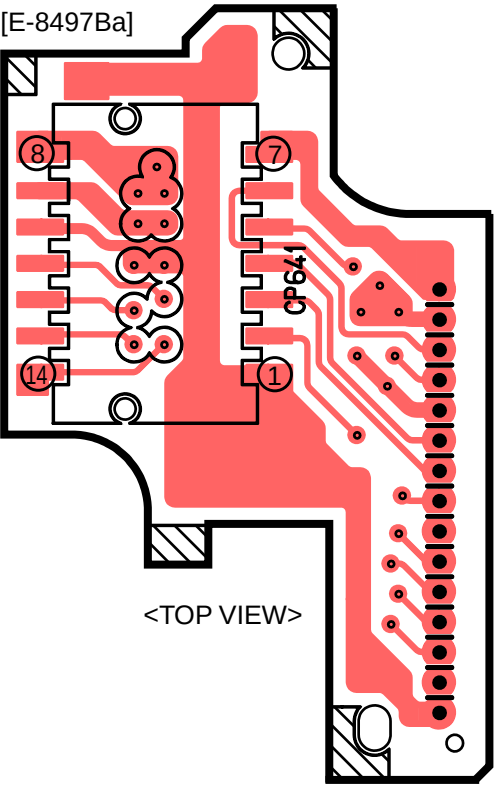


<TOP VIEW>

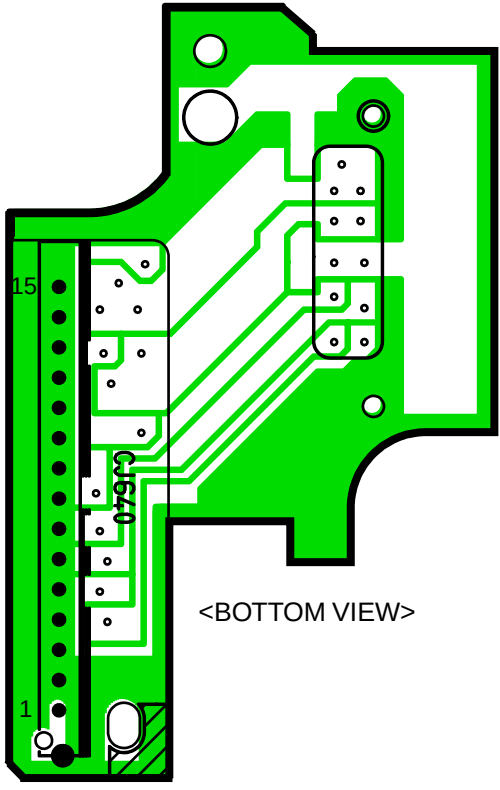


<BOTTOM VIEW>

[E-8497Ba]

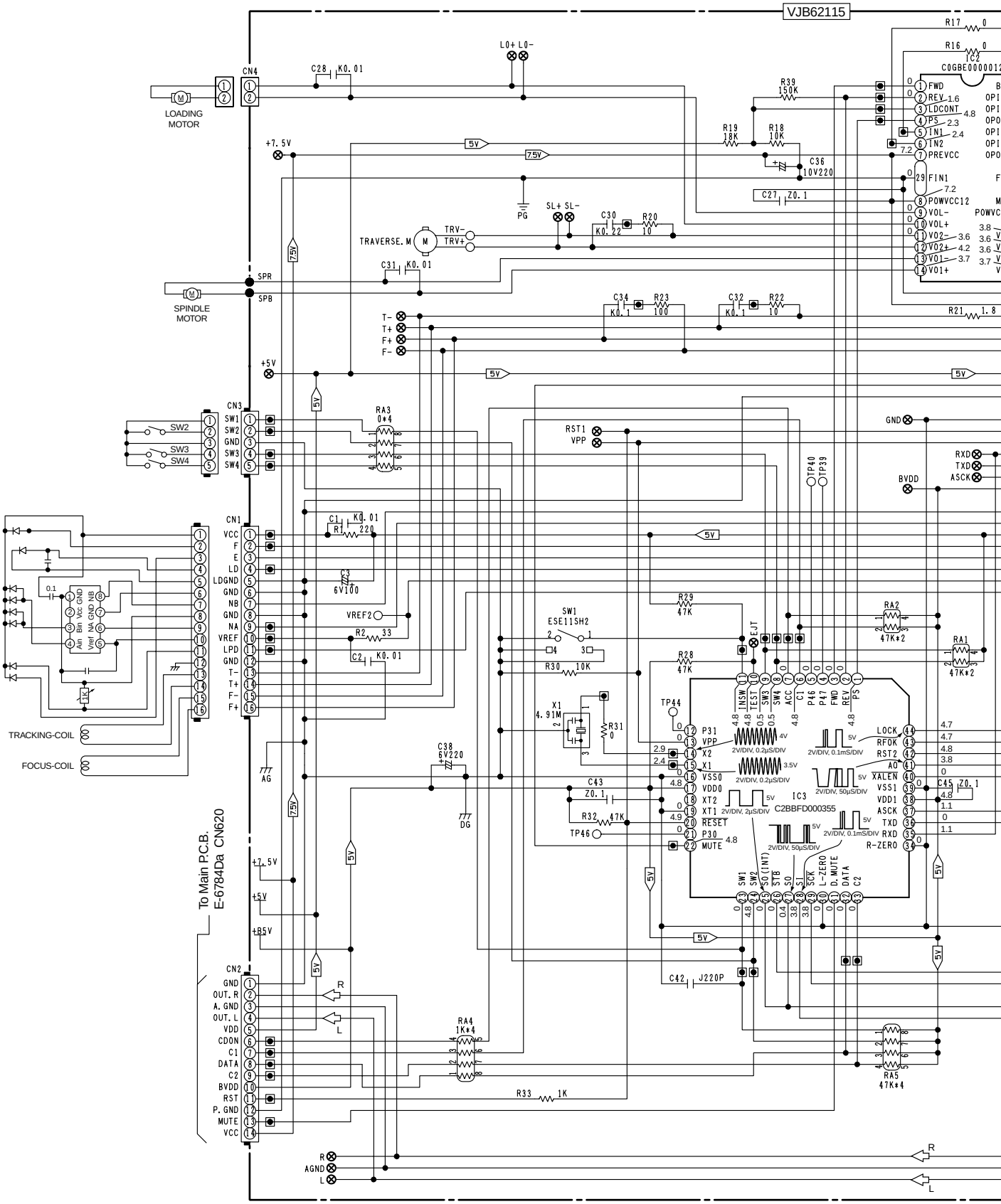


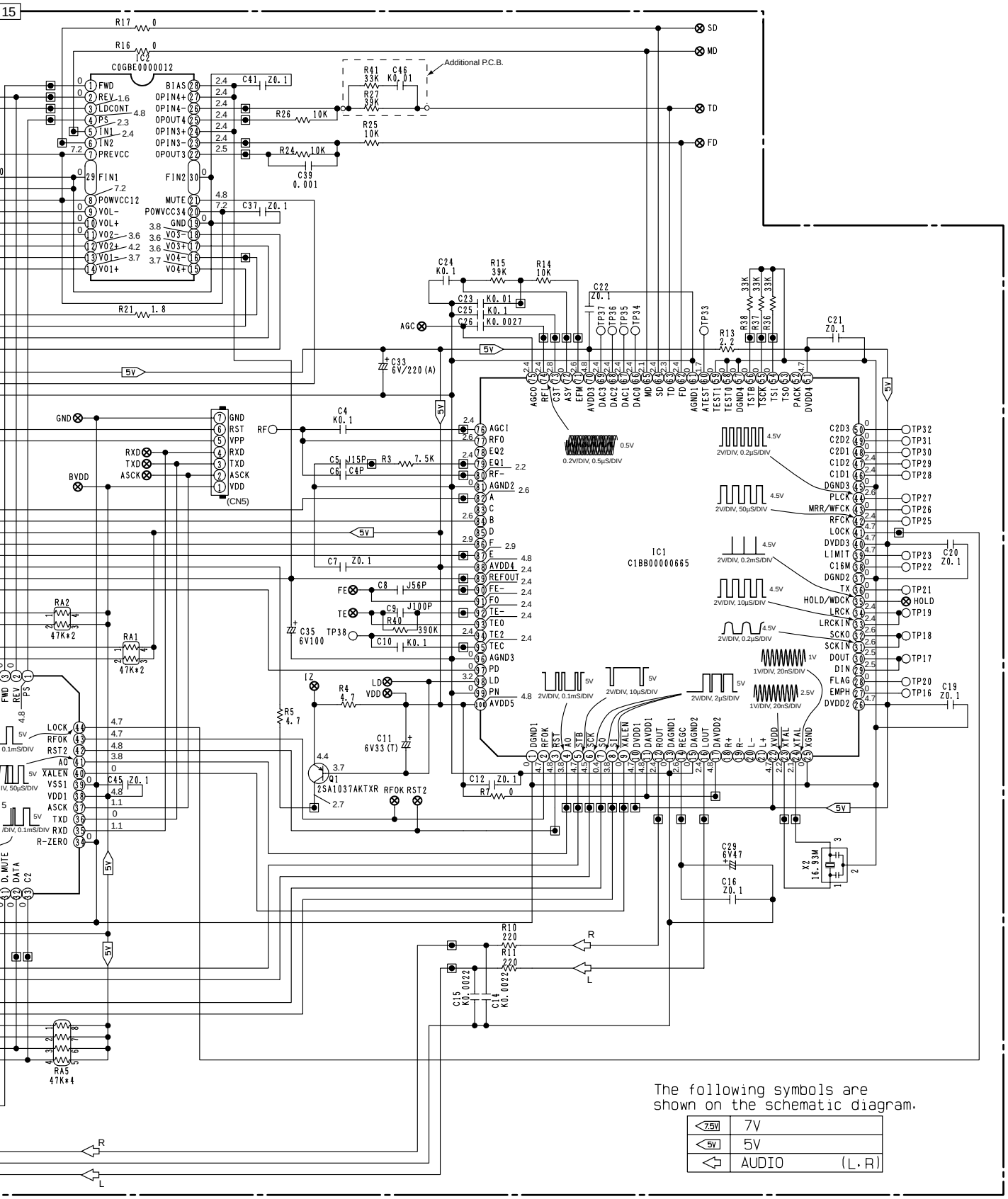
<TOP VIEW>



<BOTTOM VIEW>

18.3. CD Servo Block





The following symbols are shown on the schematic diagram.

7.5V	7V
5V	5V
	AUDIO (L, R)

CQ-DF402U/DFX302U CD BLOCK (RAJ2722)

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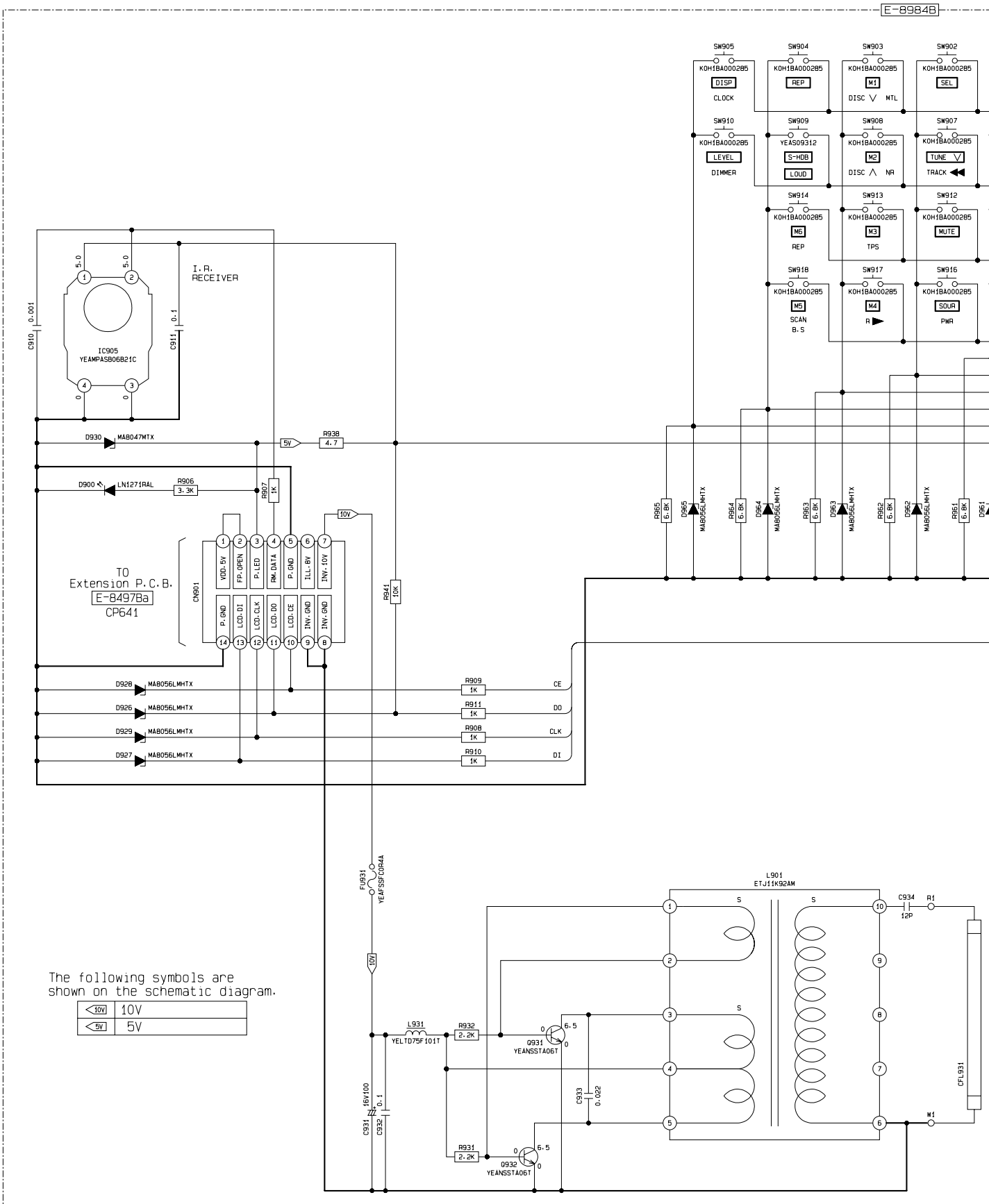
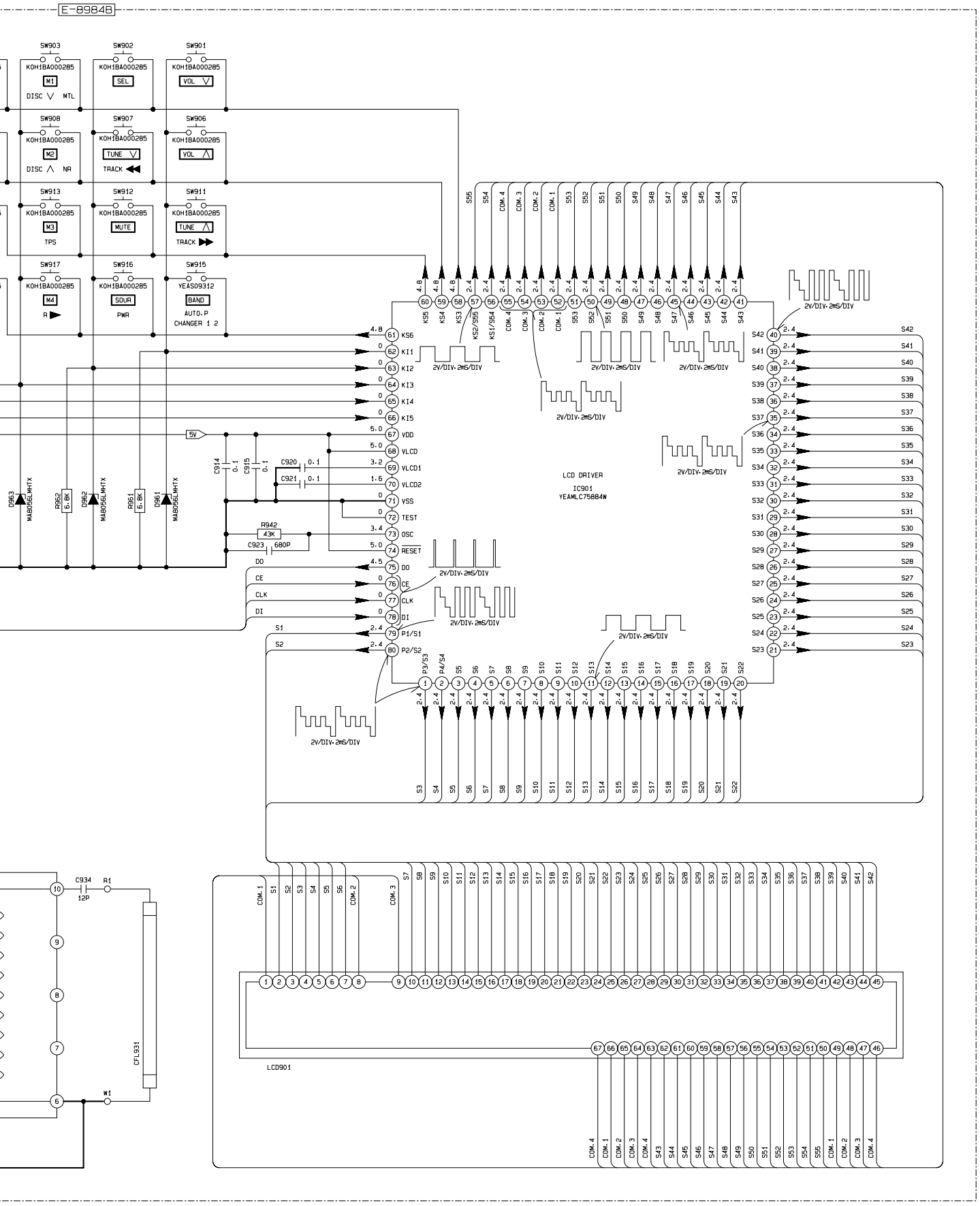
18 SCHEMATIC DIAGRAM (2)

18.1. Display Block




E-8984B
SW903
SW902
SW901
KOH1BA000285
M1
DISC ∨ MTL
SEL
VOL ∨
SW908
SW907
SW906
M2
DISC ∧ NR
TUNE ∨
TRACK ◀◀
VOL ∧
SW913
SW912
SW911
M3
TPS
MUTE
TUNE ∧
TRACK ▶▶
SW917
SW916
SW915
M4
R
SOUR
PWR
YEAS09312
BAND
AUTO.P
CHANGER 1 2
5V
D963
D962
D961
MA8056LWHTX
R962
6.8K
R961
R942
43K
C923
680P
C914
C915
C920
C921
0.1
LCD DRIVER
IC901
YEAMLC75884W
KS6
KI1
KI2
KI3
KI4
KI5
VDD
VLCD
VLCD1
VLCD2
VSS
TEST
OSC
RESET
DO
CE
CLK
DI
P1/S1
P2/S2
2V/DIV·2mS/DIV
C934
12P
R1
W1
CFL931
LCD901

18.2. Main Block